

Tonga IWRM Project Logframe (2013)

PROJECT DESCRIPTION	INDICATOR	MEANS OF VERIFICATION	ASSUMPTIONS/ RISKS	LEAD
GOAL: Sustainable water resource assessment and protection of the fragile Neiafu Groundwater Resources	Sustainable Assessment and Protection of water resource has been achieved and completed	Endorsement of Steering Committee and Community Engagement		
PURPOSE: Improved understanding of the quality and quantity of surface water, groundwater, rainwater, and their vulnerabilities to land based pollution	Community workshops and trainings, Successful Monitorings, reviews, minimizings, testings, undertake studies and surveys has improved the understanding on water resources and their vulnerabilities to land based pollution	Project Management Unit will arrange all activities, and endorse by Neiafu Steering committee throughout the life of the project		
COMPONENT 1: Mitigate Threats from Contaminants	By end of project: 25% reduction in nutrients in sewage pollution across Vava'u 30% increase in population with access to safe water supply 90% increase in Neiafu residents with access to improved sanitation 30% increase in stakeholder engagement	Pumpout truck and sludge disposal site in use System loss management plan endorsed by NSC Household water safety plans implemented by 30% of Neiafu houses		
OUTPUT 1.1 Improved agricultural practice and land use that protect the aquifer and human health	Studies on pollution and health statistics, best practices manual and training completed	Endorsement by NSC	Incooperation of Steering Committee's Responsible parts	
ACTIVITY 1.1.1 Undertake a Study to assess the extent of groundwater pollution from agricultural practices	Study and assessment is completed by September 2011	Endorsement of NSC	Time for the Procurement Process may cause delays	

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ACTIVITY 1.1.2 Update health statistics that may be associated to water contamination	Study Report by Dec 2011 with annual updates	Neiafu Steering Committee endorsement	Adequate informations available is obtained to provide confidence in results	
ACTIVITY 1.1.3 Identify practices to reduce the groundwater pollution from agricultural practices	Report on Best practices by Sep 2011	Endorsement of Steering Committee	Cooperation of the farming community	
ACTIVITY 1.1.4 Undertake community training on farmers (both women and men) of Neiafu. Train Farmers to train other farmers	Re-visit to demonstrate improved practice by Dec 2011	Endorsement of Steering Committee	Cooperation of the farming community	
OUTPUT 1.2 Septic tank impacts on groundwater reduced	Report on implementation of strategy, demonstrating: 30% increase in stakeholder engagement 25% reduction in nutrients in sewage pollution across Vava'u 90% increase in Neiafu residents with access to improved sanitation	Endorsement of Steering Committee	Assumed that the community will cooperate in minimizing the impacts of septic tanks can be simplified to provide successful results	
ACTIVITY 1.2.1 Study to assess the amount of septic leakages in the demonstration site	Study Report on the outcomes of the assessment by November 2011	Endorsement of Steering Committee	Cooperation of the community	
ACTIVITY 1.2.2 Undertake community awareness workshop on pollution leakages that might contaminate groundwater resources	Improvement in septic system management by March 2012	Audit of the community septic practice	Cooperation of the community	
ACTIVITY 1.2.3 Construct the sewage disposal site	Operating by Dec 2010	Receive first truck	Contractors' performance	

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ACTIVITY 1.2.4 Purchase the Vacuum Tank Truck	Presentation of the Vacuum Tank Truck by Dec 2010	Letter of Acceptance to Ministry of Health	Truck condition is not what is claimed	
OUTPUT 1.3 Consult and address community concerns on water supplies	Consultation and addressing community concerns Report	Endorsement of Steering Committee	Changes in community commitment, responsibility and focus	
ACTIVITY 1.3.1 Undertake workshops/meetings to consult community concerns	Adopted Minutes of workshops/meetings 30% increase in gender balanced community and wider stakeholder engagement in water related issues by Q4 2011, Q22012, Q42012	Endorsement of workshop reports by Steering Committee	Changes in Community Commitments, responsibility and focus	
ACTIVITY 1.3.2 Qualitative and Quantitative Household survey	Survey Report on households' water supplies by Dec 2010 and annual surveys in 2011 and 2012	Endorsement of Steering Committee	Weather Disturbance; Incooperation of Community	
ACTIVITY 1.3.3 Production of brochures, educational materials, community awareness workshops, TV and radio programmes, posters, etc.	Delivery of communication strategy by Q4,2011	Endorsement of reporting against communication strategy by Steering Committee	Changes in Community Commitments, responsibility and focus	
OUTPUT 1.4 Community Demonstration Project	Consultation and addressing community concerns Report	Endorsement of Steering Committee	Changes in community commitments, responsibility and focus	
ACTIVITY 1.4.1 Establish Demonstration houses on water and sanitation	12 Demonstration sites established with improved water collection, water use and sanitation options by end June 2011	Endorsement of Steering Committee	Changes in Community Commitments, responsibility and focus, Individual household commitment	
ACTIVITY 1.4.2 Develop engagement strategy and Gender Mainstreaming Strategies	Engagement strategy completed by Dec 2011	Endorsement of Steering Committee	Individual household commitment	

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ACTIVITY 1.4.3 Exchanges information Training across communities on installed sanitation options. Allow mixing of genders on training	6 Community Exchanges completed by Dec 2011 and June 2012	Reporting by communities to NSC	Community Individual commitment household commitment	
ACTIVITY 1.4.4 Pilot Household Water Safety Plan	Household level Water Safety Plan completed by March 2012	Endorsement of Steering Committee	Community Individual commitment household commitment	
ACTIVITY 1.4.5 Develop community best household water mangament practices manual	Community best wate management practices manual by March 2012	Endorsement of Steering Committee	Community Individual commitment household commitment	
ACTIVITY 1.4.6 Support uptake of water management practices manual	Survey on proportion of households applying manual by March 2013 30% increase in population with access to safe water supply	Endorsement of Steering Committee	Community Individual commitment household commitment	
COMPONENT 2: Assess water resources and water use efficiency	National staff across institutions with IWRM knowledge and experience Better understanding of groundwater through testing and modelling	Endorsement of Reports by PSC		
OUTPUT 2.1 A Hydro-Geological survey of the aquifer and well-field area	Survey Report	Endorsement of Steering Committee	Assumed to obtain accurate data for confident records	
ACTIVITY 2.1.1 Groundwater chemical and microbiological testing	Initial Assessment Report by March 2011 6 monthly monitoring reporting until Sep 2012	Endorsement of Steering Committee	Poor performance of the contractors for future monitoring	
ACTIVITY 2.1.2 Test bore holes for water quality	Assessment Report by Dec 2012	Endorsement of Steering Committee	Poor performance	

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ACTIVITY 2.1.3 Neiafu Groundwater Assessment and Sustainable Management	Report and Model Completed by Dec 2011	Endorsement of Steering Committee	Poor performance, Availability of data from Water Board and Hydrogeology may complicate modelling	
ACTIVITY 2.1.4 Staff training on G.I.S	GIS system installed and staff trained by Mar 2011	Endorsement of Steering Committee	Poor performance on installation, Travel Cancellation of consultant	
ACTIVITY 2.1.5 Draw a Salinity Map for Neiafu to identify the sites for bore holes	Salinity Map completed by Mar 2011	Endorsement of Steering Committee	Poor performance	
ACTIVITY 2.1.6 Develop institutional knowledge and experience to support policy implementation	Increase in national staff (both men and women) across institutions with IWRM knowledge and experience by end of project	Survey endorsed by APEX Body	Political will	
OUTPUT 2.2 Survey of water wastage and leaks in the groundwater extraction and distribution	Survey Report on water leakages in groundwater extraction and distribution	Endorsement of Steering Committee	Political commitment	
ACTIVITY 2.2.1 Study to assess the water leakages in extraction and the distribution system	Assessment Report complete by September 2011	Endorsement of Steering Committee	Poor performance	
ACTIVITY 2.2.2 Develop Loss Management Plan for Neiafu system	Loss Management Plan (including equipment) complete by Dec 2011	Endorsement of Steering Committee	Poor performance; Cooperation of TWB	
COMPONENT 3 Governance and Project management	Lessons learned incorporated into other project(s) and /or Regulations Replication strategy developed and implemented to mainstream lessons learned Project design and PM&E plan implemented by August 2011			

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OUTPUT 3.1 Establish a Committee to oversee the management of the Neiafu aquifer and a Technical Working Group for technical assistance	Establishment of the Technical Working group for management	Endorsement of Steering Committee	Political will and enabling budget environment	
ACTIVITY 3.1.1 Establish the Neiafu Steering Committee	Committee Established, Committee Endorsed by Dec 2010 with quarterly meetings	Letter of endorsement Minister, Minutes of meetings	Political Will and recruiting committee members	
ACTIVITY 3.1.2 Establish the Technical Working Group	TWG Established by Dec 2010	Minutes of first meeting presented to the Steering Committee	Identifying appropriate skillful people	
ACTIVITY 3.1.3 Project management of GEF IWRM Project	Project design and PM&E plan implemented by August 2011 Project completed on time and on budget	Quarterly and Annual Reports, mid-term and end of project audit	Poor communication between PCU, Poor performance	
ACTIVITY 3.1.4 Develop and implement communication strategy	Communication Strategy completed by Dec 2010 Annual Reviews Improved cross-sectoral communication by end of project	Endorsement of Steering Committee	Stakeholders cooperation	
ACTIVITY 3.1.5 Develop and implement engagement strategy	Engagement Strategy completed by Dec 2010 Annual Reviews	Endorsement of Steering Committee	Stakeholders cooperation	
ACTIVITY 3.1.6 Develop and implement capacity building strategy	Capacity Building Strategy implented by Dec 2010	Endorsement of Steering Committee	Stakeholders cooperation	
ACTIVITY 3.1.7 Develop and implement replication strategy	Replication Strategy implented by Dec 2010 Replication Toolkit, National scaling-up by June 2013, including inclusion of lessons in national project activities and/or regulations	Endorsement of Steering Committee Endorsement of APEX body	Stakeholders cooperation	

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ACTIVITY 3.1.8 Establish ongoing Neiafu Aquifer Management Committee	Committee Established, Committee Endorsed by Dec 2012	Letter of endorsement Minister, Minutes of first meeting	Political Will and recruiting committee members	
ACTIVITY 3.1.9 Develop and implement project participatory M&E programme	Participatory M&E programme by Jun 2012 Project Reporting incorporating M&E Results	Endorsement of Steering Committee	Stakeholder cooperation	
COMPONENT 4 Develop Water Resource Management Plan for Neiafu, including incentives	Develop IWRM Plan for Neiafu by end 2012	Endorsement of Minister	Changes in stakeholders roles, responsibility and focus; Political will	
OUTPUT 4.1 Develop scenarios for the future of the Aquifer (major proposed developments and their expected impacts)	Development and implementation of scenarios by June 2011	Endorsement of Steering Committee	Changes in stakeholders roles, responsibility and focus; Political will	
ACTIVITY 4.1.1 Develop scenarios	Report on the development of scenarios by Sept 2011	Endorsement of Steering Committee	Poor performance of the Project Management Unit	
OUTPUT 4.2 Develop water Resource management Plan	Study Reports	Endorsement of Steering Committee	Assumed adequate skilled people can be attracted	
ACTIVITY 4.2.1 Develop Management Strategies	Management Strategies Report by Mar 2012	Endorsement of Steering Committee	Incooperation of the responsible members	
ACTIVITY 4.2.2 Develop Financial sustainability mechanisms	Report on finance options by Mar 2012	Endorsement of Steering Committee	Political will and community cooperation	
ACTIVITY 4.2.3 Write draft WRM Plan	Drafted WRM Plan by June 2012	Minister endorsement for consultation	Political will	
ACTIVITY 4.2.4 Consult on draft WRM Plan	Consultation Report by Sep 2012	Endorsement of Steering Committee	Community Engagement	
ACTIVITY 4.2.5 Finalize WRM Plan	WRM Plan by Dec 2012	Endorsement by Minister	Political will	

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PROJECT DESCRIPTION	INDICATOR	MEANS OF VERIFICATION	ASSUMPTIONS/ RISKS	LEAD
<p>COMPONENT 5 Develop and implement National Water Resource Management Policy incorporating WUE</p>	<p>National IWRM Strategy in place by mid 2012 National Legislation in Place by mid 2012 Discrete Budget Line for IWRM in place by mid-2013 20% increase in National budget allocated to IWRM and WUE Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks by mid-2012 National IWRM indicator framework embedded in formal national reporting Country staff trained in monitoring and PM&E Increased sectoral engagement in formal multilateral communication on water issues National adoption of PM&E approaches implemented by July 2012 National IWRM communication plan framework implemented by July 2012 Multi-sectoral APEX body in place by July 2010</p>	<p>Policy endorsed by Cabinet</p>	<p>Co-funded Component subject to co-funding partner's priorities, resources and timeframes; Political will</p>	
<p>OUTPUT 5.1 National Water Resource Management Policy incorporating WUE</p>	<p>Policy document</p>	<p>Endorsement by Cabinet</p>	<p>Co-funded Component subject to co-funding partner's priorities, resources and timeframes; Political will</p>	

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PROJECT DESCRIPTION	INDICATOR	MEANS OF VERIFICATION	ASSUMPTIONS/ RISKS	LEAD
ACTIVITY 5.1.1 Support Development of National Water Resource Management Policy	National Water Resource Management Policy	Endorsement by Cabinet	Co-funded Component subject to co-funding partner's priorities, resources and timeframes; Political will	
OUTPUT 5.2 Capacity developed Nationally and resources allocated to implement policy	20% increase in national budget for IWRM activities by 2012	Endorsement by Cabinet	Co-funded Component subject to co-funding partner's priorities, resources and timeframes; Political will	
ACTIVITY 5.2.1 Support development of sustainable funding for implementation of Policy	20% increase in national budget for IWRM activities by 2012	Endorsement by Cabinet	Co-funded Component subject to co-funding partner's priorities, resources and timeframes; Political will	
ACTIVITY 5.2.2 Develop national participatory indicator framework to support IWRM implementation	National participatory M&E Framework established APEX body using Most Significant Change (MSC) and reflection and learning techniques Relevant national staff trained in participatory M&E methods	Endorsement by Cabinet Annual indicator reporting to Cabinet APEX Body Minutes Training Records Records of PM&E Consultation	Political will	
ACTIVITY 5.2.3 Support the development of a national Strategic IWRM communication plan	National Strategic IWRM Communication Plan	Endorsement by APEX body	Co-funded Component subject to co-funding partner's priorities, resources and timeframes; Political will	