



SOPAC/GEF/IWRM/RSC.3/11
Date: 14th July 2011
Original: English

Third Meeting of the Regional Project Steering Committee
for the SOPAC/UNDP/UNEP/GEF Project:
*“Implementing Sustainable Water Resources and Wastewater
Management in Pacific Island Countries”*

Rarotonga Island, Cook Islands, 25th – 30th July 2011

***National Project Indicators and Recommendations
for Monitoring and Evaluation of Project Progress***

Summary

This document contains an overview of efforts to establish a Results-Based Management (RBM) Framework for the GEF Pacific IWRM Project. RBM frameworks and their key elements are defined and discussed in relation to the design, inception, implementation, and evaluation phases of the project. The challenges faced by the project in interpreting and applying the targets and indicators contained in the ProDoc logical framework matrix are highlighted, and the approach taken to develop simple understandable indicators and targets is outlined. The revised Project Monitoring and Evaluation Framework is presented, as is an example of this as applied to project initiatives in Samoa. The Regional Steering Committee is invited to review and endorse the PMEF and consider future needs of this aspect of the project.

DEVELOPING A RESULTS-BASED MANAGEMENT FRAMEWORK FOR THE PACIFIC IWRM PROGRAMME

1. BACKGROUND

The overall strategic results framework or project logframe for the Global Environment Facility supported project entitled “*Implementing Sustainable Water Resources and Wastewater Management in Pacific Island Countries*” contains a number of indicators (both baseline and target) including sources of verification for project monitoring. A summary of the project logframe is presented in Table 1 and the full project logframe is contained in Annex 1.

Table 1 Summary Project Logframe

Impact [IM]	Project Goal: To contribute to sustainable development in the Pacific Island Region through improvements in natural resource and environmental management				1.
	Overall Objective: To improve water resources management and water use efficiency in Pacific Island Countries in order to balance overuse and conflicting uses of scarce freshwater resources through policy and legislative reform and implementation of applicable and effective Integrated Water Resources Management (IWRM) and Water Use Efficiency (WUE) plans*				2.
Effectiveness	Project Components				3.
	C1: Demonstration, Capture and Transfer of Best Practices in IWRM and WUE	C2: IWRM and WUE Regional Indicator Framework	C3: Policy, Legislative and Institutional Reform for IWRM and WUE	C4: Regional and National Capacity Building and Sustainability Programme for IWRM and WUE, including Knowledge Exchange and Learning and Replication	
	Component Objectives				
Effectiveness	Practical demonstrations of IWRM and WUE focused on removing barriers to implementation at the community/local level and targeted towards national and regional level learning and application	IWRM and environmental stress indicators developed and monitored through national and regional M&E systems to improve IWRM and WUE planning and programming and provide national and global environmental benefits.	Supporting countries to develop national IWRM policies and water efficiency strategies, endorsed by both government and civil society stakeholders, and integrated into national sustainable development strategies	Sustainable IWRM and WUE capacity development, and global SIDS learning and knowledge exchange approaches in place	3.
	Component Outcomes				
Efficiency	Lessons learned from demonstrations of IWRM and water use efficiency approaches replicated and mainstreamed into existing cross-sectoral local, national and regional approaches to water management	National and Regional adoption of IWRM and WUE indicator framework based on improved data collection and indicator feedback and action for improved national and regional sustainable development using water as the entry point	Institutional change and realignment to enact National IWRM plans and WUE strategies, including appropriate financing mechanisms identified and necessary political and legal commitments made to endorse IWRM policies and plans to accelerate Pacific Regional Action Plan actions	Improved institutional and community capacity in IWRM at national and regional levels	4.
	Outputs [OP]				
Activities (Inputs [IP])					

NB. Efficiency and Effectiveness are evaluation criteria.

In addition to the regional project logframe outlined above, each country developed a draft logframe and identified some initial baselines and target indicators for their national IWRM demonstration projects during the project preparation phase (PDF-B). The scope of these demonstration projects and the project logframes were subsequently revised during project inception phase. All project logframes were finalised and endorsed nationally in advance of the project's Regional Steering Committee meeting convened in Palau from 19th-23rd July 2010.

1.1 SO WHAT ARE RESULTS-BASED MANAGEMENT FRAMEWORKS?

As defined by OECD/DAC, a results based management framework is “a management strategy focusing on performance and achievement of **outputs, outcomes, and impacts**”. The key terminology used by the OECD with respect to results based management is summarised in Information Box 1. The GEF and its implementing agencies now encourage projects to focus on efforts that contribute to the achievement of changes on the higher end of the results-chain hierarchy, i.e., activities focused on goals and achieving results.

Information Box 1: Hierarchy Levels from OECD DAC Glossary of Key Terms in Evaluation and Results-Based Management

Results: Changes in a state or condition which derive from a cause-and-effect relationship. There are three types of such changes which can be set in motion by a development intervention – its output, outcome and impact.

Goal: The higher-order objective to which a development intervention is intended to contribute.

Impact: Positive and negative long-term effects on identifiable population groups produced by a development intervention. These effects can be economic, socio-cultural, institutional, environmental, technological or of other types.

Outcome: The intended or achieved short-term and medium-term effects of an intervention's outputs, usually requiring the collective effort of partners. Outcomes represent changes in development conditions which occur between the completion of outputs and the achievement of impact.

Outputs: The products and services which result from the completion of activities within a development intervention.

Critical tasks in a Results-Based Management Framework are monitoring and evaluation. Monitoring and evaluation are distinct tasks which should complement one another. Monitoring gives information on where a project is at any given time (over time) relative to respective targets and outcomes, and is largely a descriptive task. On the other hand, evaluation gives evidence of why targets and outcomes have or have not been achieved. The GEF's Monitoring and Evaluation Policy defines **monitoring** as:

“a continuous or periodic function that uses systematic collection of data, qualitative and quantitative, for the purpose of keeping activities on track. It is first and foremost a management instrument.”

Evaluation on the other hand:

“aims at determining the relevance, impact, effectiveness, efficiency, and sustainability of the interventions and contributions of the involved partners”

Monitoring therefore tracks progress toward a set of benchmarks and measure progress towards outcomes, while evaluation validates results and makes overall judgements about what and to what extent intended and unintended results are achieved (e.g., global environmental benefits, cost effectiveness). Table 2 highlights the different but complementary roles that monitoring and evaluation play within a Results-Based Management Framework.

Table 2 Complementary Roles of Monitoring and Evaluation

Monitoring	Evaluation
<ul style="list-style-type: none"> • Links activities and their resources to outputs and outcomes • Translates objectives into performance indicators and sets targets • Routinely collects data on indicators, compares actual results with targets • Reports progress to management and alerts them to problems 	<ul style="list-style-type: none"> • Analyses why intended results were or were not achieved • Assess specific causal contributions of activities to results • Examines the implementation process • Explores unintended results • Provides lessons, highlights significant accomplishment or program potential, and offers recommendations for improvement

1.2 GEF MINIMUM STANDARDS FOR RESULTS-BASED MANAGEMENT FRAMEWORKS

The GEF requires all projects to design and implement Results-Based Management (RBM) frameworks, and its monitoring and evaluation policy states that all GEF projects must “adopt monitoring systems, including relevant performance indicators that are SMART” (specific, measurable, achievable, realistic, timely) (see Information Box 2). Figure 1 provides a generalised Results-Based Management framework, and the links and feedback loops RBM sets in place between the three major phases of a simplified project cycle for a GEF project.

INFORMATION BOX 1: SMART INDICATORS

Specific. The system captures the essence of the desired result by clearly and directly relating to the achievement of an objective and only that objective.

Measurable. The monitoring system and indicators are unambiguously specified so that all parties agree on what they cover and there are practical ways to measure them.

Achievable and Attributable. The system identifies what changes are anticipated as a result of the intervention and whether the results are realistic. Attribution requires that changes in the targeted developmental issue can be linked to the intervention.

Relevant and Realistic. The system establishes levels of performance that are likely to be achieved in a practical manner and that reflect the expectations of stakeholders.

Time-Bound, Timely, Trackable, and Targeted. The system allows progress to be tracked in a cost-effective manner at the desired frequency for a set period, with clear identification of the particular stakeholder group(s) to be affected by the project or program.

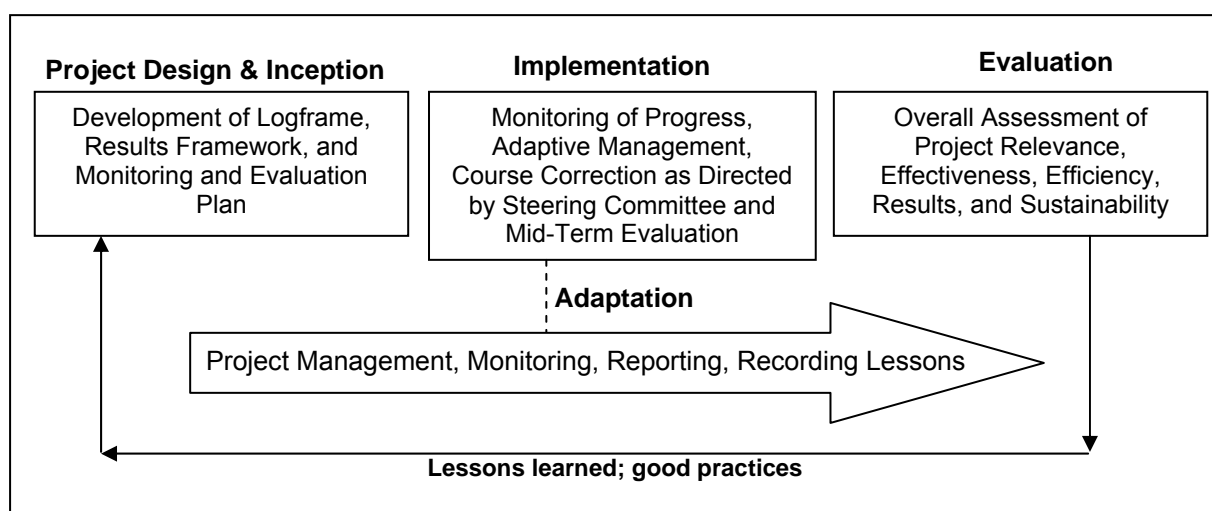


Figure 1 Management and learning aspects of a Results-Based Management Framework as applied to simplified GEF project cycle

Effort is made during the project design phase and inception period to ensure that the project objectives and intended results are clearly defined, specific, and measurable. This is aimed at providing a suitable platform to monitor and evaluate the project effectively. At the project design and inception stage, baseline data is also required for all of the key indicators for the anticipated results of the project.

The full project implementation stage requires application of project monitoring as a basis for decision-making. At this stage the baselines for the project are expected to be fully established and that data is routinely collected and analysed to fully support adaptive management by the Project Steering Committees and national stakeholders. Information Boxes 2 and 3 summarise the minimum requirements of the GEF with respect to the design and application of monitoring and evaluation. Information Box 4 summarises the criteria used to evaluate GEF project interventions.

Information Box 2

Minimum Requirement 1: Project Design of M&E

All projects will include a concrete and fully budgeted monitoring and evaluation plan by the time of work program entry for full-sized projects and CEO approval for medium-sized projects. This monitoring and evaluation plan will contain as a minimum:

- SMART indicators for project implementation, or, if no indicators are identified, an alternative plan for monitoring that will deliver reliable and valid information to management;
- SMART indicators for results (outcomes and, if applicable, impacts), and, where appropriate, indicators identified at the corporate level;
- baseline for the project, with a description of the problem to be addressed, with indicator data, or, if major baseline indicators are not identified, an alternative plan for addressing this within one year of implementation;
- identification of reviews and evaluations that will be undertaken, such as mid-term reviews or evaluations of activities; and
- organisational set-up and budgets for monitoring and evaluation.

Information Box 3

Minimum Requirement 2: Application of Project M&E

Project monitoring and supervision will include implementation of the M&E plan, comprising:

- SMART indicators for implementation are actively used, or if not, a reasonable explanation is provided;
- SMART indicators for results are actively used, or if not, a reasonable explanation is provided;
- the baseline for the project is fully established and data compiled to review progress, and evaluations are undertaken as planned; and
- the organisational set-up for M&E is operational and budgets are spent as planned.

1.3 PRODOC REQUIREMENTS

The logframe of the UNEP and UNDP Project Documents provides a suite of “*comprehensive baseline and target indicators and sources of verification for both outcome and output levels during project implementation*”. It was anticipated that these would “*form the basis on which the project’s Monitoring and Evaluation (M&E) system [would] be built*”.

0.

It was envisaged during the project design phase that Demonstration project level indicators would provide an effective way of monitoring progress. It was planned to aggregate these at each of the Demonstration project group¹ levels to enable projects to learn from each other as part of the project *twinning* approach.

¹ (i) Watershed Management; (ii) Wastewater & Sanitation Management; (iii) Water Resources Assessment & Protection; (iv) Water Use Efficiency & Safety.

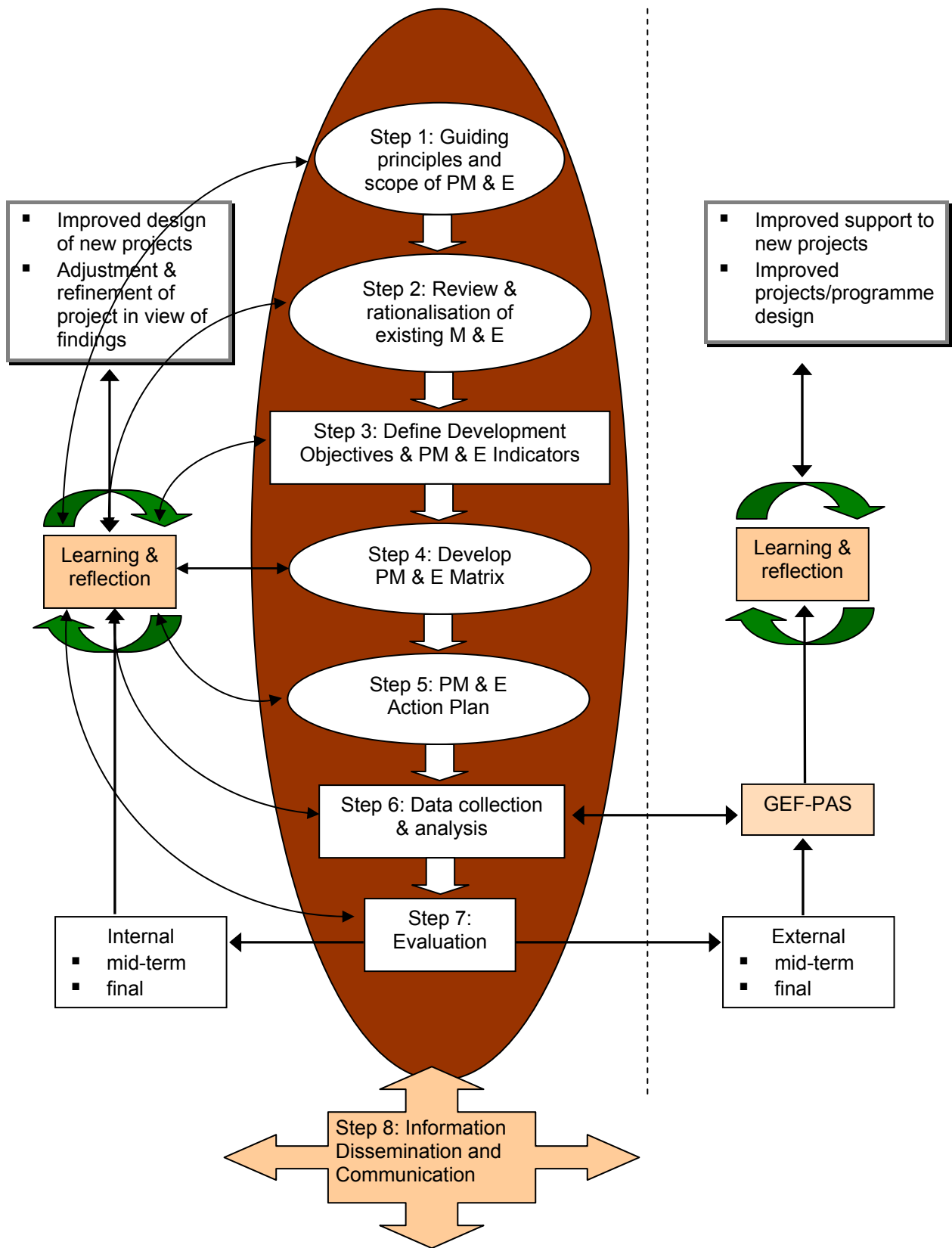


Figure 2 System for monitoring and evaluation proposed in UNDP/UNEP ProDocs

Information Box 4

Current Criteria for Evaluating GEF Project Interventions

Relevance. The extent to which the activity is suited to local and national development priorities and organizational policies, including changes over time.

Effectiveness. The extent to which an objective has been achieved or how likely it is to be achieved.

Efficiency. The extent to which results have been delivered with the least costly resources possible; also called cost effectiveness or efficacy.

Results. The positive and negative, and foreseen and unforeseen, changes to and effects produced by a development intervention. In GEF terms, results include direct project outputs, short- to medium-term outcomes, and longer term impact including global environmental benefits, replication effects, and other local effects.

Sustainability. The likely ability of an intervention to continue to deliver benefits for an extended period of time after completion. Projects need to be environmentally as well as financially and socially sustainable.

It was further envisaged that the demonstration project level indicators would provide an annual measure of progress at the project level, and would be scaled-up to provide a suite of cross-cutting indicators which relate to IWRM, NAP, NAPA, NSDSs, and other national planning processes as a way to monitor progress, using National IWRM APEX Bodies as the cross sectoral facilitators. It was planned that by raising the need and developing approaches for indicators, countries would be supported in monitoring approaches, including improving institutional capacity for monitoring and action on those monitoring results to address water and environmental challenges. The types of indicators to be used at the project level are summarised below.

Process indicators, which establish regional or national frameworks/conditions for improving environmental/water resources quality or quantity but do not themselves deliver stress reduction or improved environmental/water resources quality or quantity. The establishment of process indicators is essential to characterize the completion of institutional processes on the multi-country level or national level that will result in joint action on needed policy, legal, and institutional reforms and investments that aim to reduce environmental stress on transboundary water bodies. For the Pacific IWRM project management indicators will be included as Process indicators to ensure that 360° feedback is provided to the UN Agencies and GEF-PAS to provide information on why things happened the way they did to improve future project and programme planning. The role of the PCU is to report on both good and bad project implementation so that lessons can be learned.

Stress reduction indicators, which relate to specific on-the-ground measures implemented by the countries, and which characterize and quantify specific reductions in environmental/water resources stress on water bodies, e.g. reduction in pollutant releases, more sustainable fishing levels and/or practices, improved freshwater flows, reduced rate of introduction of invasive species, increased habitat restoration or protection, etc.

Environmental Status indicators, which demonstrate improvements in the environmental status as well as any associated socio-economic improvements. These indicators are usually 'static' snapshots of environmental and socioeconomic conditions at a given point in time so, like Stress Reduction, are usually reported against a baseline year and level to show change/improvement.

Based on feedback from Implementing Agencies and other GEF International Waters projects the Pacific IWRM project does not intend to use Environmental Status indicators. Environmental Status will be determined by baseline information for environmental stress indicators². National Diagnostic Analysis reports already provide useful baseline information for indicator development. Other indicators the project will develop and use both at the National Demonstration level and then at the regional level within the IWRM and WUE Regional Indicator Framework include:

² Also based on feedback from the GEF Fourth Biennial International Waters Conference, 31 July – 3 August, 2007, Cape Town, Republic of South Africa. Close working will be fostered between the IWRM and IWCAM projects concerning indicators, and documents have already been shared including: Heileman, S., and Walling, L. 2008. *IWCAM Indicators Mechanism and Capacity Assessment*. Integrating Watershed & Coastal Areas Management in the Caribbean Small Island Developing States (IWCAM) Project. DRAFT document under development.

Socio-economic indicators – indicators which demonstrate improvements in the livelihood base of people involved in or affected by the project. This may include access to safe water supply and sanitation services, improvement in hygienic behaviour, etc.

Water Use Efficiency indicators will demonstrate improvement in the use of water resources. This could include reductions in leakage from water supply networks, improvement in equipment used for efficiency purposes (both water and energy consumption), improvement in water resource use (use of non-potable water for toilet flushing and not water resources for drinking), alternative technologies (composting toilets, membrane filters to improve water quality and therefore reduce health costs).

Catalytic indicators represent events and activities which occur which, when combined with others, including the project interventions, have a catalytic effect and can therefore improve the situation with no direct involvement from the project. This may include policy reform at the national level which has immediate benefits for the areas to be addressed by the project. However, catalytic indicators can also represent the combined effect of approaches in the project and/or with other projects which as a collective whole provide more benefit than the sum of their respective parts.

Governance indicators relate to the national IWRM policy planning process. Governance represents the range of political, social, economic and administrative systems that are in place to develop and manage water resources and the delivery of water services at different levels of society. Good governance is also about supporting civil society to help them make good decisions – and to provide them with the necessary skills and confidence to hold their Governments accountable.

Reform and strengthening of water sectors can often be considered as an ‘entry point’ for wider national reform as water is cross sectoral and multi-level, therefore providing an opportunity to assess how government manages a vital resource. Lessons learnt in the water sector can often be transposed into other sectors.

X-cutting indicators are those which affect more than one single sector. For example, reducing freshwater pollution into coastal receiving waters from a wastewater treatment plant may have benefits on nearby fishstocks and other marine organisms, including their habitat. Improving sanitation systems together with hand washing campaigns and other awareness raising activities could have benefits for the health sector, as it is hoped that safer sanitation systems and following hygienic practices reduces diarrhoeal cases, especially in children.

Proxy indicators may need to be used in some cases where information is not available or where a clear result of an intervention is not easy to determine. These will be developed during the first 6-12 months of the project. Proxy indicators are more likely to be used for cross sectoral indicators.

Baseline Data - represents information collected at the initial stage of the project. Baseline data provides a basis for measuring progress in achieving project objectives and outputs/outcomes. It allows for “before” and “after” project scenarios to measure the impact of the project interventions. Baseline data allows you to look at the “with” and “without” project scenarios. Baseline data will be collected by National Project staff, and the communities/wider stakeholders involved in the project area (both geographical and sectoral). By including a wider sample than the project alone national project management staff will be able to compare the effects of the project on the environment and beneficiaries with those who were not directly targeted by the project.

2. DEVELOPMENT OF A PROJECT MONITORING AND EVALUATION FRAMEWORK

The Regional Technical Advisory Group of the project initially identified three key objectives in progressing the development of the Project Monitoring and Evaluation Framework, namely:

- i. **Country project staff should review their project logframes to ensure that project document indicators are reflected in their logframes** - this process is ongoing, with many countries having already accommodated the project document indicators. However, the formalisation of the project M&E framework will trigger a final review and incorporation of indicators into logframes.*

ii. **The PCU is to work with country project teams to ensure that all indicators are reflected in the country demonstration project logframes** - this step is ongoing, with the PCU working in partnership with country project teams. Again, a final review will be required following the formalisation of the PMEF.

iii. **The PCU is to work with country project teams to ensure that the Focal Points are engaging the APEX bodies to deliver national outcomes**

2.1 Guidance from the 2nd Meeting of the Regional Technical Advisory Group

The guidance provided to the PCU in developing a draft PMEF included:

- Targets were found to be confusing and the need for further clarification was identified – many targets incorporated multiple components, making assessment of progress difficult
- Timeframes needed to be reviewed to reflect the delays to the project initiation and changes to delivery modalities
- Monitoring approaches should include both output tracking, such as the nature, complexity and number of consultations and meetings conducted, through to outcome level monitoring of improved sanitation facilities
- Several targets had poor capacity for monitoring progress
- Significant further work that was required to establish national demonstration project baselines and to establish monitoring programs to track progress

The PCU were asked to consider the above comments and to provide a draft version of the PMEF for review by the 3rd RTAG Meeting.

2.2 Key Principles Adopted in Development the PMEF

The key principles adopted in developing the PMEF were:

- Simple understandable indicators and targets
- Quantitative measures have been adopted where practical
- The use of studies, independent auditors and monitoring for the sole purpose of demonstrating achievement against numerical Project Document targets has been kept to a minimum
- Monitoring aligns as much as practical with project activities
- Overall progress is classified into broad categories (Complete; Mostly Complete; Partially Complete; Mostly Incomplete and Incomplete) to reflect the level of reporting required

2.3 Development of Simple Understandable Indicators and Targets

The need to provide simple understandable indicators and targets was considered critical for the PMEF to be a useful tool for tracking project progress and assessing project and national outcomes. The approach proposed is to break down the Project Document targets into single, simple indicators with associated baselines and targets. An example target is

“35% reduction in sewage pollution over eq.~40,000 ha area leading to reduction in eutrophication for 4 coastal receiving waters sites”. At the country level for Nauru, this target can be broken down into:

- An associated area (which generally will remain constant as the project site)
- Reduction in eutrophication for coastal receiving waters
- A reduction in sewage pollution and associated target

As mentioned, the associated area will generally remain constant, but an initial measurement is required.

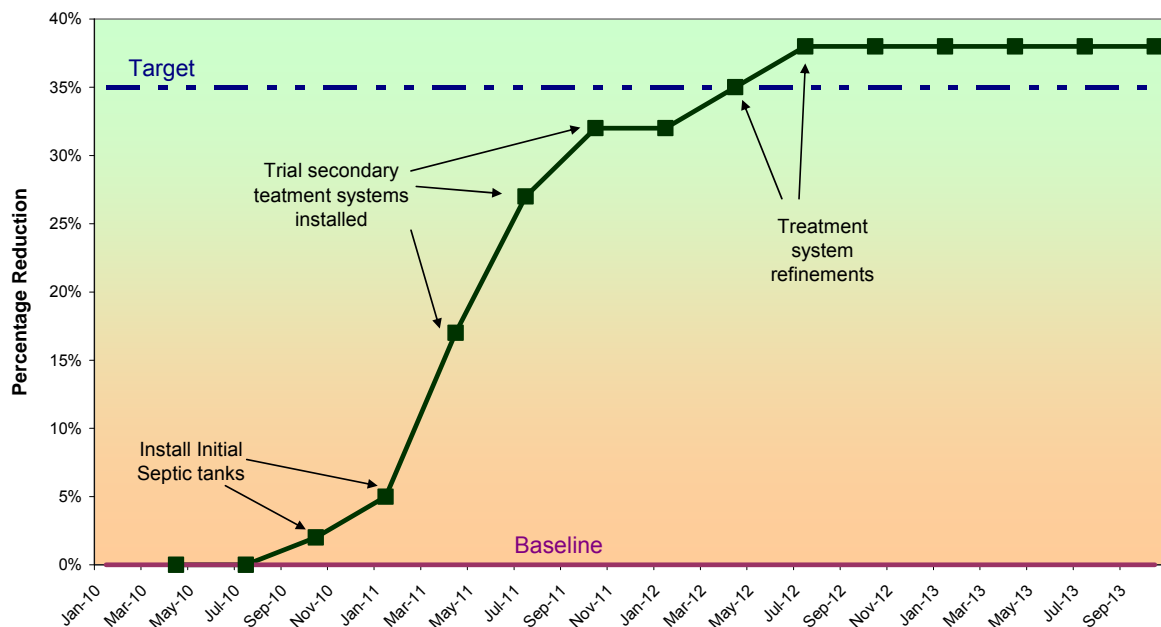
It may be possible to show reduction in coastal water eutrophication arising from project outputs, but this isn't likely in the project timeframes because the nutrient reductions are only likely to be evident towards the end of the project. Changes in nutrient status often take years to respond as nutrients can recycle within coastal systems for many years depending on exchanges, sediment and biota nutrient

fluxes re-establishing a dynamic equilibrium and natural system variation. Therefore, the capacity to demonstrate eutrophication reduction relies on demonstrating sewage pollution reduction, which in turn relies on estimating reduced loads. This approach is consistent with the Project Documents, which state that environmental stress reduction should be used as a proxy for environmental state improvement in the PMEFL.

Reduction in coastal water eutrophication will therefore be implied from measurable reductions in sewage pollution discharges to groundwater or surface waters ultimately discharging into coastal waters.

The measured indicator is therefore reduced to a simple indicator – the reduction of sewage pollution, with an associated target (35% reduction). An example of the sewage pollution reduction indicator for the Nauru demonstration project is shown in **Figure 1**. In this example, the reduction in sewage pollution is the indicator (green boxes). The baseline is zero (or no reduction from current levels). The target is a 35% reduction. The annotation provides information on contributing stages of the project over a 2½ year period.

Figure 1 Example Indicator Plot
Nauru Sewage Pollution Reduction



By breaking the Project Documents into simple indicators, tracking can be simplified. Without this sort of indicator, tracking is complex, relying on reporting against a complex target.

The reporting against this indicator is then simplified to:

Country Reporting:

Nauru Target: 35% reduction in sewage pollution in Ewa and Anetan Communities (20 ha)

- Scorecard:**
- Complete** Target reduction in sewage pollution and target area
 - Mostly Complete** ¾ of target reduction and area achieved
 - Partially Complete** ½ of target reduction and area achieved
 - Mostly Incomplete** Significant measurable reduction in sewage pollution
- or

Strategy and funding in place, but groundworks not completed to deliver reduction in sewage pollution

Incomplete

No significant reduction in sewage pollution

This can be assessed at a community level – likely to be close to this level of reduction across whole community if 50% achieved for each septic through secondary treatment for demonstration sites. Demonstrated through a study report on demonstrations endorsed by the Steering Committee.

Baseline data:

Catchment area

Existing state of sanitation systems in demonstration site

Regional Reporting:

Scorecard:	Complete	35% reduction in sewage pollution over 40,000 ha, reducing eutrophication in 4 coastal waters
	Mostly Complete	Achieve 2 of 3 of 35% reduction in sewage pollution, over 40,000ha area, reducing eutrophication in 4 coastal waters Or 25% reduction in sewage pollution over 40,000 ha, reducing eutrophication in 4 coastal waters
	Partially Complete	At least 20% increase in forested and protected area over at least 20,000ha, reducing eutrophication in at least 2 coastal waters
	Mostly Incomplete	Measurable reductions in sewage pollution reducing sewage pollution in at least 2 coastal waters
	Incomplete	No significant reduction in sewage pollution

This approach provides tools for tracking progress, assessing overall outcome and contribution to regional outcomes.

3. MATTERS FOR CONSIDERATION BY THE REGIONAL STEERING COMMITTEE

Annex 1 contains the original logical framework matrix for the project and objectively verifiable Impact indicators. Annex 2 contains for each logframe target, the simplified targets and indicators, as well as the project monitoring and evaluation framework. Annex 3 contains an example of a country specific monitoring and evaluation template as completed by the Samoa team. These country specific templates were sent to all countries for completion.

The RSC is invited to review, revise as appropriate, and endorse Project Monitoring and Evaluation Framework developed for the GEF Pacific IWRM Project

Annex 1: Logical Framework and Objectively Verifiable Impact Indicators

Project Strategy	Objectively verifiable indicators				
<i>Goal</i>	To contribute to sustainable development in the Pacific Islands Region through improvements in water resource and environmental management.				
	Indicator	<i>Baseline</i>	<i>Target</i>	Sources of verification	Risks and Assumptions
<p>Objective: Improved water resources management and water use efficiency in Pacific Island Countries in order to balance overuse and conflicting uses of scarce freshwater resources through policy and legislative reform and implementation of applicable and effective Integrated Water Resources Management (IWRM) and Water Use Efficiency (WUE) plans</p>	<p>1.1 Overarching improvement in water resource management, quality and availability through appropriate national Demonstration Project execution and concurrent reforms in policy, legislation and institutional arrangements leading to global environmental benefits [P]</p> <p>1.2 Actual change in institutional and societal behaviour [P]</p>	<p>1.1 Fragmented institutional responsibilities, weak policies, communication & coordination resulting in fragile or non-existent IWRM approaches in place</p> <p>1.2 Poor and inconsistent data collection for monitoring and inadequate action and investment and change based on monitoring information</p>	<p>1.1 14 National IWRM and Water Use Efficiency Strategies in place, with institutional ownership secured with 20% increase in national budget allocations by month 42 [P]</p> <p>1.2 Best IWRM and WUE approaches mainstreamed into national and regional planning frameworks by end of project facilitated by national IWRM APEX bodies, Project Steering Committee, Pacific Partnership, and PCU by month 60 [P]</p> <p>1.3 Environmental stress reduction in 14 Pacific SIDS: 30% increase in forest area for ~8,000 ha of land, 35% reduction in sewage pollution over eq.~40,000 ha area leading to reduction in eutrophication for 4 coastal receiving waters sites, and 35% reduction in water leakage for systems supplying ~85,000 people by end of project, leading to av. 30% increase in population with access to safe water supply and sanitation for 6 sites (based on targets under Component 1) [SR]</p>	<p>Demonstration Project Annual Reporting</p> <p>National IWRM Plans and Water Use Efficiency Strategies with appropriate budget allocations in place</p> <p>Indicator Framework mechanism</p> <p>National Government feedback on institutional changes</p> <p>Pacific Partnership, RAP, NAPA, NAP, NSDSs, and MDG reporting</p>	<p>Strong and high-level government commitment is sustained and willing to make change – adequate understanding and political will</p> <p>Able to monitor and update baseline information and action taken ion findings and results</p> <p>Inclusive stakeholder involvement in the IWRM consultation process</p>

<p>Component 1: Demonstration, Capture and Transfer of Best Practices in IWRM and WUE</p> <p>Component 1 Outcome: Lessons learned from demonstrations of IWRM and water use efficiency approaches replicated and mainstreamed into existing cross-sectoral local, national and regional approaches to water management</p>	<p>1.1 Step change improvement in baseline situation (based on Diagnostic Analyses) from project start, including adoption of technical and allocative water use efficiency approaches by end of project [SR]</p>	<p>1.1 Fragmented institutional responsibilities, weak policies, communication & coordination resulting in fragile or non-existent IWRM approaches in place</p> <p>1.2 Lessons learned from water management and IWRM type interventions are not shared or acted upon</p> <p>1.3 Water Use Efficiency is poorly understood and often not considered in water management decisions</p> <p>1.4 Pollutants from sanitation systems, industrial and urban discharges and poor land management practices enter fresh surface and groundwater and coastal receiving waters</p>	<p><u>(i) Watershed Management</u> 2 Basin Flood Risk Management Plans resulting in 10% reduction in infrastructure loss due to flooding (on approximately 18,000 ha of land) by end of project [SR]</p> <p>30% increase in forest area at 2 Demonstration Sites covering ~8,000 ha of land [SR]</p> <p><u>(ii) Wastewater & Sanitation Management</u> 35% reduction in sewage pollution discharge at 8 Demonstration sites (covering eq. 40,000 ha of land) by month 48 [SR]</p> <p><u>(iii) Water Resources Assessment & Protection</u> 4 SIDS have revised legislation in place to protect surface water quality by end of project [P]</p> <p><u>(iv) Water Use Efficiency & Water Safety</u> 35% reduction in leakage in 3 national urban water supply systems (serving ~85,000 people) by month 42 and reduction over freshwater usage for sanitation by end of project [SR]</p> <p>Replication of technical and water use efficiency lessons from project applied in future national and project based activities by end of project [P]</p> <p>Technical, management, participatory and advocacy lessons from projects developed into national lessons learned presentation packages with best practices mainstreamed into national and regional approaches by end of project facilitated by national IWRM APEX bodies, Project Steering Committee, Pacific Partnership, and PCU [P]</p>	<p>Demonstration Project Annual Reporting</p> <p>National IWRM Plans and Water Use Efficiency Strategies with appropriate budget allocations in place</p> <p>Pacific Partnership and RAP reporting</p>	<p>Available local capacity to manage and implement national Demonstration projects</p> <p>Inclusive stakeholder involvement in the IWRM consultation process</p> <p>Mechanisms and approaches to capture lessons are appropriate and promote action and replication</p>
--	---	--	--	--	--

<p>Component 2: IWRM and WUE Regional Indicator Framework</p> <p>Component 2 Outcome: National and Regional adoption of IWRM and WUE indicator framework based on improved data collection and indicator feedback and action for improved national and regional sustainable development using water as the entry point</p>	<p>1.1 Multi-sectoral approaches to national water and environmental management improved and increased through M&E feedback and action, leading to global environmental benefits by end of project [P]</p>	<p>1.1 Poor and inconsistent data collection for monitoring and inadequate action and investment and change based on monitoring information</p>	<p>1.1 Indicator feedback facilitated through IWRM APEX Body provides information for multi-sectoral action and endorsement of national and indicators for IWRM, NAPA, NAP and sustainable development planning (NSDSs and NEAPs) by end of project [P]</p>	<p>Indicator Framework mechanism in place and active</p> <p>Increase national budget for hot-spot areas identified by Indicator Framework</p>	<p>Strong understanding and willingness to use and act upon the data is present</p>
<p>Component 3: Policy, Legislative and Institutional Reform for IWRM and WUE</p> <p>Component 3 Outcome: Institutional change and realignment to enact National IWRM plans and WUE strategies, including appropriate financing mechanisms identified and necessary political and legal commitments made to endorse IWRM policies and plans to accelerate Pacific Regional Action Plan actions</p>	<p>1.1 Nationally endorsed IWRM plans and WUE strategies in place and driving sustainable water governance reform in PICS by end of project [P]</p>	<p>1.1 No nationally endorsed IWRM plans or water use efficiency approaches in place</p> <p>1.2 Fragmented national and regional water sector</p>	<p>1.1 14 draft National IWRM and Water Use Efficiency Strategies in place, with institutional ownership secured through the national APEX body and institutional mandates adjusted/confirmed as IWRM implementing agencies with appropriate budget allocations by month 42 [P]</p>	<p>National IWRM Plans and Water Use Efficiency Strategies with appropriate budget allocations in place</p> <p>National budget plans</p>	<p>Strong and high-level government commitment is sustained and willing to make change – adequate understanding and political will</p>
<p>Component 4: Regional and National Capacity Building and Sustainability Programme for IWRM and WUE, including Knowledge Exchange and Learning and Replication</p> <p>Component 4 Outcome: Improved institutional and community capacity in IWRM at national and regional levels</p>	<p>1.1 Measurable sustained increase in training and awareness campaigns, including appropriate national level financial allocations for capacity development by end of project [P]</p>	<p>1.1 Poor collection and exchange of information within and between countries, often sectorally focused with poor consideration of investment planning required to ensure sustainability and human capacity development needs</p>	<p>1.1 Increase in national staff (both men and women) across institutions with IWRM knowledge and experience by end of project [P]</p> <p>1.2 30% increase in gender balanced community and wider stakeholder engagement in water related issues by month 60, [P]</p> <p>1.3 Improved cross-sectoral communication by end of project [P]</p>	<p>National water management reporting</p> <p>National and regional press</p> <p>National Government feedback on institutional changes</p> <p>Pacific Partnership and RAP reporting</p>	<p>Strong and high-level government commitment is sustained and willing to make change – adequate understanding and political will</p> <p>Stakeholders able to understand, cope and promote IWRM</p>

Component 1: Demonstration, Capture and Transfer of Best Practices in IWRM and WUE [UNDP]

Project Strategy	Objectively verifiable indicators				
Component 1 Objective:	Practical demonstrations of IWRM and WUE focused on removing barriers to implementation at the community/local level and targeted towards national and regional level learning and application				
	Indicator	Baseline	Target	Sources of verification	Risks and Assumptions
<p>Component 1 Outputs:</p> <p>1.1 Improved access to safe drinking water supplies</p> <p>1.2 Reduction in sewage release into coastal receiving waters</p> <p>1.3 Reduction in catchment deforestation and sustainable forest and land management practices established</p> <p>1.4 Water Safety Plans developed and adopted</p> <p>1.5 Integrated Flood Risk Management approaches designed and developed</p> <p>1.6 Expansion in eco-sanitation use and reduction in freshwater use for sanitation purposes</p> <p>1.7 Improved community level engagement with national institutions responsible for water management</p> <p>1.8 Increase in water storage facilities</p> <p>1.9 Technical and Allocative Water Use Efficiency approaches designed and adopted</p> <p>1.10 Identification and adoption of appropriate financing approaches for sustainable water management</p>	<p>1.1 Capture of Lessons from Demonstration Projects & other Water Initiatives (CTI/PACC/PAS) shared regionally & with global SIDS [P]</p> <p>1.2 Replication of Demonstration Projects within & between PICS (where support and finances available) [SR]</p> <p>1.3 Successful demonstrations of IWRM approaches mainstreamed into existing local, national, & regional approaches [SR]</p> <p>1.4 PIC understanding & adoption of technical, allocative, and equitable water use efficiency measures [P]</p> <p>1.5 Support for social and economic welfare of island communities through improved water management [P]</p> <p>1.6 Environmental quality and productivity sustained [SR]</p> <p>1.7 Improved public-health across SIDS with improved monitoring [SR]</p> <p>1.8 Increase in groundwater monitoring and regular sampling routines established for SIDS (leading to improvements in groundwater quality) [SR]</p> <p>1.9 Functioning water & environment cost recovery schemes adopted using PIC driven mechanisms to sustain environmental productivity balanced with equitable use of water resources [P]</p>	<p>1.1 Limited water resources susceptible to over-exploitation and pollution</p> <p>1.2 Vulnerability to climate variability</p> <p>1.3 Insufficient political and public awareness of the role water plays in economic development, public health and environmental protection</p> <p>1.4 High urban water losses, poor water conservation & inadequate drinking water treatment</p> <p>1.5 Poor wastewater management resulting in increased land based source pollution into the watershed and coastal environment</p> <p>1.6 Fragmented institutional responsibilities, weak policies, communication & coordination</p> <p>1.7 Conflicts between national versus traditional rights</p> <p>1.8 Inadequate financing due to poor cost-recovery and limited 'economies of scale'</p> <p>1.9 Weak stakeholder linkages both within and outside the water sector</p> <p>1.10 Reduction in ecosystem productivity and biodiversity</p> <p>1.11 Reduction in human health and socio-economic condition due to poor and inadequate access to sanitation and safe water supplies</p>	<p>(i) Watershed Management</p> <p>(i) 40% increase in population with access to safe drinking water at 1 demo site [SR]</p> <p>(ii) 30% reduction in animal manure and sewage entering marine waters at 1 demo site [SR]</p> <p>(iii) 30% increase in forest area at 2 demo sites [SR]</p> <p>(iv) Water Safety Plans in place and enacted in 3 peri-urban areas [SR]</p> <p>(v) Legislation in place to protect surface water quality in 4 SIDS [P]</p> <p>(vi) 1 basin flood risk management plan in place [P]</p> <p>(vii) Sustainable forest & land mgmt practices established and trialed with landowners in 2 demo sites [SR]</p> <p>(ii) Wastewater & Sanitation Management</p> <p>(i) 40% reduction in GW and marine pollution discharge at 2 demo sites from sewage and manure [SR]</p> <p>(ii) 30% reduction in drinking water resources pollution discharge for 1 SIDS [SR]</p> <p>(iii) 30% reduction in use of freshwater for sanitation purposes due to eco-sanitation expansion in 1 demo site [SR]</p> <p>(iv) 50% increase in community engagement with National Government in 3 SIDS [P]</p> <p>(iii) Water Resources Assessment & Protection</p> <p>(i) National effluent standards reached for wastewater treatment at 3 sites [P]</p> <p>(ii) 20% increase in water storage facilities at 1 demo site [SR]</p> <p>(iii) Water leakage reduced by 40% from existing baseline levels in 1 water supply system [SR]</p> <p>(iv) 10% reduction in damage to infrastructure due to flooding in 1 significant catchment [SR]</p> <p>(v) 1 basin flood risk management plan in place and a Catchment Council established in 2 SIDS [SR]</p> <p>(iv) Water Use Efficiency & Water Safety</p> <p>(i) WUE improved by 30% over baseline in 2 urban water supply systems [SR]</p> <p>(ii) Water Safety Plans in place and enacted in 2 urban areas [P]</p> <p>(iii) 20% reduction in sewage and manure pollution into fresh and marine waters for 2 urban/peri-urban areas [SR]</p> <p>(iv) 30% reduction in groundwater pollution discharge for 2 water supply systems [SR]</p>	<p>Quarterly, bi-annual, and annual National Demonstration Progress Reporting</p> <p>Project Coordination Unit (PCU) Annual Monitoring Reports and missions</p> <p>National and regional statistical reports (SPC MDG and census reporting)</p> <p>Mid-Term Review Reporting and mission</p> <p>PCU general reporting to Project Steering Committee and UNDP/UNEP</p> <p>IWRM Planning and WUE Strategies (available online and via PCU)</p> <p>National IWRM APEX body meeting minutes</p>	<p>Strong and high-level government commitment is not sustained</p> <p>Vulnerability to changing environmental conditions</p> <p>Inclusive stakeholder involvement in the IWRM consultation process</p> <p>Limited influence of national and catchment stakeholders to promote and sustain IWRM</p> <p>Restricted capacity of stakeholders to implement IWRM best practice in countries</p>

Component 2: IWRM and WUE Regional Indicator Framework [UNEP]

Project Strategy	Objectively verifiable indicators				
<i>Component 2 Objective:</i>	IWRM and environmental stress indicators developed and monitored through national and regional M&E systems to improve IWRM and WUE planning and programming and provide national and global environmental benefits.				
	Indicator	<i>Baseline</i>	<i>Target</i>	Sources of verification	Risks and Assumptions
<p>Component 2 Outputs:</p> <p>2.1 Process, Stress Reduction, Environmental and Socio-Economic Status, WUE, Catalytic, Governance, Proxy, and X-Cutting Regional Indicator Framework (RIF) established and in use</p> <p>2.2 Participatory M&E adopted within Demonstration Projects [C1] and mainstreamed into national best practice</p> <p>2.3 Improved institutional capacity for monitoring and support for action on findings across the region, including Pacific RAP progress for water investment planning (and International Waters SAP)</p>	<p>1.1 Regional Indicator Framework (RIF) integrated into national sustainable development approaches (NSDSs and NEAPs) and national adaptation programmes for action (NAPAs) and national adaptation plans (NAPs) for disaster risk reduction [P]</p> <p>1.2 Indicator data provides evidence base for action by SIDS National Governments [P]</p> <p>1.3 Communities actively involved in designing, implementing and monitoring water and environment projects [P]</p> <p>1.4 National expert monitoring staff available as a resource to National IWRM APEX bodies and across government using systems thinking approaches [P]</p> <p>1.5 Established national data collection for monitoring and access by all database facilities with appropriate institutional mandates and powers in place for use of and action with the data for national programming, advocacy, learning and accountability [P]</p>	<p>1.1 National approaches do not use appropriate indicators and where they do these are single sectoral in nature</p> <p>1.2 Communities are rarely involved in water and environmental management approaches</p> <p>1.3 Monitoring is not a mainstreamed practice in national institutions responsible for water and environmental management</p> <p>1.4 Inconsistent monitoring data collection and insufficient use of information for intervention improvements and planning</p>	<p>1.1 Aggregation of all final national demonstration project indicators by month 8 of the project [P]</p> <p>1.2 Draft regional Indicator Framework developed for consultation by month 18 of the project [P]</p> <p>1.3 Countries fully utilizing Indicator Framework by month 36 [P]</p> <p>1.4 Stakeholder consultation and approval of project design and PM&E plan for each national demonstration project by month 8 of the project, including separate consultations with women [P]</p> <p>1.5 National promotion and adoption of PM&E approaches by national water APEX body by month 36 of project using Most Significant Change (MSC) and reflection and learning techniques [P]</p> <p>1.6 Relevant national country staff trained in monitoring and PM&E approaches by month 24 of the project based on needs assessment [P]</p> <p>1.7 APEX body leading institutional training in consistent data collection and development of national monitoring rationale by month 36 of project [P]</p> <p>1.8 Regional matrix in place for Pacific RAP monitoring and national investment planning by month 42 of the project [P]</p>	<p>Revised and finally endorsed Demonstration Project Proposals (available month 8)</p> <p>C2 Indicator Framework annual reports</p> <p>Regional Indicator Framework progress reports</p> <p>National Demonstration Project reporting</p> <p>Annual national IWRM reporting by national APEX bodies</p> <p>Training Needs Assessment report and Training of Trainers workshops</p> <p>National Monitoring Plans and relevant data collection records and action recommendations</p> <p>Regional matrix available online and annual investment planning reporting per country</p>	<p>Indicator data is available and/or the means to find/collect the data are available</p> <p>Strong understanding and willingness to use and act upon the data is present</p> <p>Strong willingness to participate by communities involved in Demonstration Projects and wider stakeholders</p> <p>Willingness by national government to learn from and adopt PM&E approaches where applicable</p> <p>Appropriate staff are available to work with project staff and the national IWRM APEX bodies to mainstream monitoring into normal practice</p>

Component 3: Policy, Legislative and Institutional Reform for IWRM and WUE [\$3,021,080 – entirely co-financed] [UNEP oversight]

Project Strategy	Objectively verifiable indicators				
Component 3 Objective:	Supporting countries to develop national IWRM policies and water efficiency strategies, endorsed by both government and civil society stakeholders, and integrated into national sustainable development strategies				
	Indicator	<u>Baseline</u>	<u>Target</u>	Sources of verification	Risks and Assumptions
<p>Component 3 Outputs:</p> <p>3.1 National IWRM plans and WUE strategies developed and endorsed</p> <p>3.2 Implementation of IWRM approaches agreed across national, community and regional organisations</p> <p>3.3 Strengthened and sustainable APEX water bodies to catalyze implementation of national IWRM and WUE plans, including balanced gender membership</p> <p>3.4 Awareness raised across civil society, governments, education systems and the private sector</p> <p>3.5 Sustainability strategies developed focusing on institutional and technical interventions required for Demonstration scaling-up as part of National IWRM Plan development and implementation</p>	<p>1.1 National IWRM Plans in place and adopted by SIDS National Governments with appropriate resources to implement and monitor & strategic links made to NAPAs and NAPs, NSDSs, and coastal resources management plans [P]</p> <p>1.2 National Water Use Efficiencies in place and adopted by SIDS National Governments with appropriate resources to implement and monitor [P]</p> <p>1.3 Regularly meeting capable IWRM APEX bodies responsible for the coordination of national IWRM activities including sharing experience regionally with other SIDS IWRM APEX bodies [P]</p> <p>1.4 IWRM communicated and mainstreamed into national working practices, including national school curricula [P]</p> <p>1.5 National budgeting and financial planning for x-sectoral IWRM approaches included within Treasuries/Financial Ministries [P]</p>	<p>1.1 No nationally endorsed IWRM plans in place</p> <p>1.2 Water use efficiency measures not considered (or only focusing on technical efficiency)</p> <p>1.3 APEX bodies in place but with weak or no mandates/ToR, budget, or authority</p> <p>1.4 Adhoc awareness campaigns for water management, with little engagement with the private sector, civil society or the education sector</p> <p>1.5 Few operation and maintenance plans for infrastructure in place</p> <p>1.6 Few asset management plans or approaches developed</p> <p>1.7 Unwillingness to change institutional situation to improve water governance</p>	<p>1.1 14 draft National IWRM plans produced by month 18 of the project, with final versions published by month 24 [P]</p> <p>1.2 14 draft Water Use Efficiency Strategy documents produced by month 18 of the project, with final versions published by month 24 [P]</p> <p>1.3 National recruitment of support adviser to national APEX bodies by month 6 of the project [P]</p> <p>1.4 Strategic IWRM communication plan framework for individual national development in place by month 12 of the project (based on Regional Communication Strategy in place by month 6), with national development and implementation by month 24 [P]</p> <p>1.5 Multi-sectoral participation in national APEX bodies by month 12 of the project with 33% female membership (including private and education sector membership and national finance and economic planning units) [P]</p> <p>1.6 Replication Framework in place by month 6, Replication Toolkit in place by month 24, National scaling-up and replication strategies in place based on Demonstration project success and failures for each country by month 54 of the project [P]</p>	<p>National IWRM Plans and Water Use Efficiency Strategies</p> <p>National IWRM Roadmaps</p> <p>Other National Plans (Sanitation action Plans, etc)</p> <p>Contract and annual performance reviews of Advisers to national APEX bodies</p> <p>National IWRM communication plans and materials produced (videos, webshots, websites, articles, press releases, speeches, posters, workshop reports, meetings, community theatre productions, radio stories/interviews, work stories, community meeting notes, APEX body Terms of Reference, membership log, minutes, other national APEX body meeting minutes)</p> <p>National Scaling-Up and Replication recommendation reports</p> <p>Regional Indicator Framework progress reports and National Monitoring Plans</p> <p>National Demonstration Project reporting</p> <p>Regional matrix available online and annual investment planning reporting</p>	<p>Appropriately qualified national staff available</p> <p>Stakeholders willing to participate.</p> <p>Country and catchment priority issues exist</p> <p>Early partnerships continue to exist and function. Partnerships have capacity to use support tools or work with external advisors</p> <p>Partnerships maintain capacity and external examples of good practice exist and can be adapted for SIDS</p>

Component 4: Regional and National Capacity Building and Sustainability Programme for IWRM and WUE, including Knowledge Exchange and Learning and Replication [UNEP]

Project Strategy	Objectively verifiable indicators				
Component 4 Objective:	Sustainable IWRM and WUE capacity development, and global SIDS learning and knowledge exchange approaches in place				
	Indicator	Baseline	Target	Sources of verification	Risks and Assumptions
<p>Component 4 Outputs:</p> <p>4.1 National and regional skills upgraded in project management and monitoring including water champions and APEX bodies for both men and women</p> <p>4.2 Active twinning programmes in place between countries facing similar water and environmental degradation problems</p> <p>4.3 Effective knowledge management networking and information sharing inter and intra-regional</p>	<p>1.1 Water champions identified and active in awareness raising by month 9 of the project [P]</p> <p>1.2 Twinning exchange programmes in place between countries and regions (Caribbean and African SIDS) [P]</p> <p>1.3 Dynamic regional CPD* training workshops and networking through existing CROP agencies and IW:LEARN approaches including strategic links to other GEF initiatives throughout project, reviewed and appraised annually [P]</p> <p>1.4 Comprehensive IWRM and WUE data warehouse facility using appropriate media for PICs (linked to Indicator Framework, Pacific RAP and Caribbean and African SIDS approaches) [P]</p>	<p>1.1 Few twinning opportunities and little information exchange and lesson learning between countries and regions</p> <p>1.2 Training workshops in place but often sectoral and technical in focus</p> <p>1.3 Few opportunities for training on IWRM, sustainability issues, investment planning, and monitoring, within the context of IWRM</p> <p>1.4 No comprehensive IWRM and WUE data store of information available to PICs or other global SIDS</p>	<p>1.1 IWRM awareness programs integrated into normal institutional practices with appropriate budget approved by month 48 of project [P]</p> <p>1.2 Five twinning exchange programs in place between countries by month 42 of the project and at least 1 program with the Caribbean on IWRM planning underway for a similar program with African SIDS [P]</p> <p>1.3 Cross-sectoral regional learning mechanisms (communities of practice) in place including x-project workshop attendance for the GEF funded projects: PACC, SLM, and the ADB CTI project reviewed annually [P]</p> <p>1.4 GEF IW experience with IWRM upgraded for SIDS and highlighted at GEF IWC6, WWF5 Istanbul 2009, and WWF6 TBD 2012, including SIDS experience to support GEF in future IW Focal Area Strategy development and Strategic Programming [P]</p> <p>1.5 Women form at least 2 of the 5 twinning exchange programme members by month 42 of the project [P]</p>	<p>Recruitment feedback via National APEX bodies and IWRM Focal Points through meeting reports and minutes, including Awareness Program Scoping and Implementation Reports</p> <p>Twinning and secondment reports</p> <p>Workshop reports and publications, IW:LEARN outputs</p> <p>Database in place and linked to other resources – available via WWW and other media</p> <p>Pacific Partnership meeting outputs and reports, including Partnership Newsletter</p>	<p>Water champions are present in-countries and willing to take on the role</p> <p>National participation in the twinning approach and lessons learned and feedback</p> <p>Public concerned about water and catchment management issues</p> <p>Countries willing to share information with each other, regionally and inter-regionally</p>

ANNEX 2

LOGFRAME TARGET 1

14 National IWRM and Water Use Efficiency Strategies in place, with institutional ownership secured with 20% increase in national budget allocations by month 42

and

Draft National IWRM plans and Water Use Efficiency strategies produced by June 2010, with final versions published by end 2010

Proposed Target:

14 National IWRM Strategies in place incorporating Water Use Efficiency, with institutional ownership secured. A 20% increase in national budget allocations by month 54

Proposed Indicator(s)

Strategies in place:

1. National strategies in place (in the form of national policy, strategic framework, plan, etc) addressing explicitly both IWRM and water use efficiency

Increase in National Budget:

2. 20% increase in national budget attributable to IWRM and WUE

Relies on capacity to clearly identify budget component attributable to IWRM/WUE which may be challenging

Options include:

- i. Discrete budget line
- ii. Clear ability to break down budget

Comparison required against feedback – suspect that this is currently a baseline of zero in most countries; meaning any allocation will strictly satisfy.

A secondary approach, where it is not possible to show an increase in budget is to show that institutional ownership is secured through allocation of discrete budget line(s) to IWRM and/or WUE

Country Reporting

Scorecard:	Complete	Strategy endorsed and 20% increase in budget
	Mostly Complete	Strategy endorsed, budget allocated to IWRM and WUE, but no increase in budget
	Partially Complete	Strategy endorsed with reference to IWRM and WUE, with budget lines allocated to IWRM and WUE
	Mostly Incomplete	Strategy endorsed with reference to IWRM and WUE, but not consistent with best practice; no budget allocation
	Incomplete	No change in national policy or budget

Regional Reporting

Scorecard:	Complete	Strategy endorsed and 20% increase in budget in 12 countries
	Mostly Complete	Strategy endorsed and 20% increase in budget in 9 countries
	Partially Complete	Strategy endorsed in 5 countries
	Mostly Incomplete	Strategy endorsed in up to 3 countries
	Incomplete	Strategy not endorsed in any countries

Baseline will need to include any allocation likely to be moved across to IWRM and WUE to enable direct comparison.

Note that a 20% increase may be consistent with CPI increase – although recession may impact on this.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	<p>1 National Strategy in Place Developed through EU IWRM contract</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development, due mid-2012</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Minister</p> <p><input type="checkbox"/> Cook Islands 2013/4 Budget (1 April 2013)</p> <p><input type="checkbox"/> Budgets 2009/10 and 2013/4</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009/10 budget allocated to IWRM and WUE</p>
Fiji	<p>1 National Strategy in Place Developed through Junior Professional</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development, due mid-2012</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by 1 Jan 2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Fiji Islands 2013 Budget (1 January 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
FSM	<p>1 National Strategy in Place Developed through process initiated in Summit</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development, due mid-2012</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by Oct 1 2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> FSM 2013 Budget (1 October 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
Nauru	<p>1 National Strategy in Place Developed through EU IWRM Policy contract</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development, due mid-2012</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Minister</p> <p><input type="checkbox"/> Nauru 2013/4 Budget (1 July 2013)</p> <p><input type="checkbox"/> Budgets 2009/10 and 2013/4</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009/10 budget allocated to IWRM and WUE</p>

Country	Indicator	Target	Means of Verification	Baseline
Niue	<p>1 National Strategy in Place Developed through EU IWRM Policy contract</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development, due mid-2012</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Niue 2013 Budget (1 April 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
Palau	<p>1 National Strategy in Place Developed through process initiated in Summit</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Palau 2013 Budget (1 October 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of current budget allocated to IWRM and WUE</p>
PNG	<p>1 National Strategy in Place Developed through Junior Professional</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Strategy</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase in Budget</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> PNG 2013 Budget (1 January 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
RMI	<p>1 National Strategy in Place Developed through process initiated in Summit</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> RMI 2013 Budget (1 October 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>

Country	Indicator	Target	Means of Verification	Baseline
Samoa	<p>1 National Strategy in Place</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Samoa 2013 Budget (1 June 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
Solomon Islands	<p>1 National Strategy in Place Developed through Junior Professional</p> <p>2 Discrete Budget Line for IWRM Mechanism to be finalised</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Solomon Islands 2013 Budget (1 January 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
Tonga	<p>1 National Legislation in Place Developed through EU IWRM project</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through Legislation</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Tonga Islands 2013 Budget (1 July 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
Tuvalu	<p>1 National Strategy in place Developed through Junior Professional</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Policy development, due mid-2012</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Tuvalu 2013 Budget (1 January 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>
Vanuatu	<p>1 National Strategy in Place Developed through Junior Professional</p> <p>2 Discrete Budget Line for IWRM Anticipated to be achieved through National Strategy</p> <p>3 National budget allocated to IWRM and WUE</p>	<p><input type="checkbox"/> Strategy in place by mid 2012</p> <p><input type="checkbox"/> Budget line in place by mid-2013</p> <p><input type="checkbox"/> 20% increase</p>	<p><input type="checkbox"/> Endorsement by Cabinet</p> <p><input type="checkbox"/> Vanuatu 2013 Budget (1 January 2013)</p> <p><input type="checkbox"/> Budgets 2009 and 2013</p>	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE</p>

LOGFRAME TARGET 2

Best IWRM and WUE approaches mainstreamed into national and regional planning frameworks by end of project facilitated by national IWRM APEX bodies, Project Steering Committee, Pacific Partnership, and PCU by month 60

Proposed Indicator(s)

Best IWRM and WUE approaches assessed:

4. Best IWRM and WUE approaches defined for each country

Relies on capacity to clearly identify best IWRM and WUE approaches at national and regional levels

Options include:

- i. Review of IWRM at a national level undertaken
- ii. Statement of generic IWRM and WUE best practice

All countries (except Fiji and Vanuatu) indicated that reviews of how to mainstream IWRM and WUE into national planning would be done during 2011-2013. It is suggested that if this target is to be met, then these reviews should be undertaken during the first half of 2011. It is likely that evaluation of project performance in meeting this meeting will be audit based, requiring some form of assessment in each country as to the mechanisms for improving and mainstreaming.

5. Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks

Relies on capacity to clearly identify whether best approaches have been mainstreamed.

Options include:

- i. Incorporation of recommendations of review of best approaches
- ii. Incorporation of generic IWRM and WUE best practice

Given that most countries will have completed a review of best practice, incorporation of these recommendations is the most obvious and appropriate approach.

The mechanism for ensuring that this as been delivered would require some form of audit, either through PCU, peer (another country) or independent consultant

Country Reporting

Scorecard:	Complete	Best Practices mainstreamed into national planning framework
	Mostly Complete	Best Practices defined and largely incorporated into planning framework
	Partially Complete	Best practices defined, with references to some in planning framework; or incorporated into Agency strategies, but not mainstreamed
	Mostly Incomplete	Best practices defines, but not incorporated into framework
	Incomplete	Best practices not defined

Regional Reporting

Scorecard:	Complete	Best Practices mainstreamed into national planning framework in 12 countries
	Mostly Complete	Best Practices mainstreamed into national planning framework in 9 countries
	Partially Complete	Best Practices mainstreamed into national planning framework in 5 countries
	Mostly Incomplete	Best Practices mainstreamed into national planning framework in up to 3 countries
	Incomplete	Best Practices not mainstreamed in any countries

Baseline

No Baseline required

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	4 Best IWRM and WUE approaches defined Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required
Fiji	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required
FSM	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required
Nauru	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required

Country	Indicator	Target	Means of Verification	Baseline
Niue	<p>4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project</p> <p>5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012</p>	<p><input type="checkbox"/> Approach defined</p> <p><input type="checkbox"/> National Strategy incorporates defined approach</p>	<p><input type="checkbox"/> Endorsement by APEX body</p> <p><input type="checkbox"/> Audit by:</p> <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p>
Palau	<p>4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project</p> <p>5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012</p>	<p><input type="checkbox"/> Approach defined</p> <p><input type="checkbox"/> National Strategy incorporates defined approach</p>	<p><input type="checkbox"/> Endorsement by APEX body</p> <p><input type="checkbox"/> Audit by:</p> <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p>
PNG	<p>4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project</p> <p>5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012</p>	<p><input type="checkbox"/> Approach defined</p> <p><input type="checkbox"/> National Strategy incorporates defined approach</p>	<p><input type="checkbox"/> Endorsement by APEX body</p> <p><input type="checkbox"/> Audit by:</p> <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p>
RMI	<p>4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project</p> <p>5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012</p>	<p><input type="checkbox"/> Approach defined</p> <p><input type="checkbox"/> National Strategy incorporates defined approach</p>	<p><input type="checkbox"/> Endorsement by APEX body</p> <p><input type="checkbox"/> Audit by:</p> <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p>
Samoa	<p>4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project</p> <p>5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012</p>	<p><input type="checkbox"/> Approach defined</p> <p><input type="checkbox"/> National Strategy incorporates defined approach</p>	<p><input type="checkbox"/> Endorsement by APEX body</p> <p><input type="checkbox"/> Audit by:</p> <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<p><input type="checkbox"/> None required</p> <p><input type="checkbox"/> None required</p>

Country	Indicator	Target	Means of Verification	Baseline
Solomon Islands	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required
Tonga	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required
Tuvalu	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required
Vanuatu	4 Best IWRM and WUE approaches defined for each country Developed through EU IWRM project	<input type="checkbox"/> Approach defined	<input type="checkbox"/> Endorsement by APEX body	<input type="checkbox"/> None required
	5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks Should be completed as part of national strategy development by mid-2012	<input type="checkbox"/> National Strategy incorporates defined approach	<input type="checkbox"/> Audit by: <ul style="list-style-type: none"> • Independent consultant • Peer review • PCU audit 	<input type="checkbox"/> None required

LOGFRAME TARGET 3

Environmental stress reduction in 14 Pacific SIDS: 30% increase in forest area for ~8,000 ha of land

The interpretation that must be applied to this target for it to be meaningful is “area of land protected and/or rehabilitated”. There will not be a significant degree of reforestation within the project timelines. The “percentage increase” in forest area is interpreted as “coverage over the catchment”.

Proposed Indicator(s)

6. Increase in land protected and/or rehabilitated over catchment

For land to be declared as ‘protected’ there needs to be a formal statement supported by Legislation (either directly or through Regulations) of the land boundaries and the degree of protection. The types of changes that would be considered appropriate include:

- i. Protection of catchment area from development as some form of reserve (e.g. watershed or conservation) or national park
- ii. Change in land use planning from developed (e.g. pasture or cropping) to forestry or reserve
- iii. Planting or replanting areas to rehabilitate reserve areas or watercourse riparian and catchment areas

The area could simply be determined through GIS mapping.

Note that other partner initiatives that qualify as co-funding (such as forestry initiatives in the catchment) can be counted towards achieving this target.

Country Reporting

Scorecard: Complete	Target increase in forested and protected area achieved through formal declaration
Mostly Complete	¾ of target increase in forested and protected area achieved through formal declaration
Partially Complete	At least ¾ of target increase in forested and protected area achieved through, but no formal declaration
Mostly Incomplete	Measurable increases in forested and protected areas, without formal declaration
Incomplete	No significant increase in forested or protected areas

Regional Reporting

Scorecard: Complete	30% increase in forested and protected area over 8,000 ha of catchments
Mostly Complete	30% increase in forested and protected area over 6,000 ha of catchments; or 20% increase in forested and protected area over 8,000 ha of catchments
Partially Complete	At least 15% increase in forested and protected area over 8,000ha of catchment; or a 30% increase in forested area over at least 4,000ha of catchment
Mostly Incomplete	Measurable increases in forested and protected areas
Incomplete	No significant increase in forested or protected areas

Baseline

Catchment and forested and protected area areas defined as of beginning 2009, or as close as possible in time

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	<p>6 Increase in land protected and/or rehabilitated over the catchment</p> <p>Groundwater and/or surface water catchments may be declared reserves. Unlikely that significant revegetation will occur associated with the project</p>	<input type="checkbox"/>	<input type="checkbox"/> Reserves declared by Cabinet (Cabinet minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Reserves declared by Cabinet / Minister at 1 January 2009 <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time (if there is likely to be significant revegetation associated with the project)
FSM	<p>6 Increase in land protected and/or rehabilitated over the catchment</p> <p>Groundwater and/or surface water catchments may be declared reserves. Unlikely that significant revegetation will occur associated with the project</p>	<input type="checkbox"/> 2,000 ha	<input type="checkbox"/> Reserves declared by Cabinet (Cabinet minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Reserves declared by Cabinet / Minister at 1 January 2009 <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time (if there is likely to be significant revegetation associated with the project)
Palau	<p>6 Increase in land protected and/or rehabilitated over the catchment</p> <p>Surface water catchments may be declared reserves. Some revegetation will occur associated with the project; however unlikely to be on significant scale</p>	<input type="checkbox"/> 1,000 ha	<input type="checkbox"/> Reserves declared by Cabinet (Cabinet minutes) <input type="checkbox"/> Completion report on riparian zone revegetation endorsed by Steering Committee	<input type="checkbox"/> Catchment area <input type="checkbox"/> Reserves declared by Cabinet / Minister at 1 January 2009 <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time
Samoa	<p>6 Increase in land protected and/or rehabilitated over the catchment</p> <p>Groundwater and/or surface water catchments may be declared reserves. Unlikely that significant revegetation will occur associated with the project</p>	<input type="checkbox"/> 2,000 ha	<input type="checkbox"/> Reserves declared by Cabinet (Cabinet minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Reserves declared by Cabinet / Minister at 1 January 2009 <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time (if there is likely to be significant revegetation associated with the project)

Country	Indicator	Target	Means of Verification	Baseline
Solomon Islands	<p>6 Increase in land protected and/or rehabilitated over the catchment</p> <p>Groundwater and/or surface water catchments may be declared reserves. Unlikely that significant revegetation will occur associated with the project</p>	<input type="checkbox"/> 2,000 ha	<input type="checkbox"/> Reserves declared by Cabinet (Cabinet minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Reserves declared by Cabinet / Minister at 1 January 2009 <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time (if there is likely to be significant revegetation associated with the project)
Vanuatu	<p>6 Increase in land protected and/or rehabilitated over the catchment</p> <p>Surface water catchments may be declared reserves. Unlikely that significant revegetation will occur associated with the project</p>	<input type="checkbox"/> 1,000 ha	<input type="checkbox"/> Reserves declared by Cabinet (Cabinet minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Reserves declared by Cabinet / Minister at 1 January 2009 <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time (if there is likely to be significant revegetation associated with the project)

LOGFRAME TARGET 4

35% reduction in sewage pollution over eq.~40,000 ha area leading to reduction in eutrophication for 4 coastal receiving waters sites

Proposed Indicator

7. Reduction in sewage pollution

Sewage pollution reduction occurs through removal or reduction of source (e.g. composting toilets or reuse), reduction in pollution levels discharged (e.g. upgrading a cess pit to a septic, secondary treatment) or by increasing the attenuation in the environment (possibly by relocating the source further from a sensitive receiving environment). Examples include:

- i. Reduction in sewage volume as a proportion of houses/septics/population served, achieved through composting toilets, recycling effluent or another means
- ii. Reduction in pollutants entering environment through improved treatment. Each septic tank achieves about 20-30% reduction from a cesspit in the key nutrient and organic pollutants. A secondary treatment process can improve this a further 20-40%
- iii. Introduction of a sludge pump-out truck; effectively converting cesspits into septics

Area

The second aspect of this target, the area can simply be determined through GIS or another form of mapping. The area reported is the area over which the project will reduce sewage pollution (typically the project site area, but may be larger if the impacts of the project extend beyond the site boundaries).

Reduction in eutrophication for 4 coastal receiving waters

It may be possible to show reduction in coastal water eutrophication arising from project outputs, but this isn't likely in the project timeframes because the nutrient reductions are only likely to be evident towards the end of the project. Changes in nutrient status often take years to respond as nutrients can recycle within coastal systems for many years depending on exchanges, sediment and biota nutrient fluxes re-establishing a dynamic equilibrium and natural system variation. Therefore, the capacity to demonstrate eutrophication reduction relies on demonstrating sewage pollution reduction, which in turn relies on estimating reduced loads. This approach is consistent with the Project Documents, which state that environmental stress reduction should be used as a proxy for environmental state improvement in the project M&E framework.

Reduction in coastal water eutrophication will therefore be implied from measurable reductions in sewage pollution discharges to groundwater or surface waters. In Nauru's case, this link was established in the Diagnostic Report³ (as the links were for all coastal systems in other countries).

Country Reporting

Scorecard:	Complete	Target reduction in sewage pollution and target area
	Mostly Complete	¾ of target reduction and area achieved
	Partially Complete	½ of target reduction and area achieved
	Mostly Incomplete	Significant measurable reduction in sewage pollution
		Or
		Strategy and funding in place, but groundworks not completed to deliver reduction in sewage pollution
	Incomplete	No significant reduction in sewage pollution

Regional Reporting

Scorecard:	Complete	35% reduction in sewage pollution over 40,000 ha, reducing eutrophication in 4 coastal waters
	Mostly Complete	Achieve 2 of 3 of 35% reduction in sewage pollution, over 40,000ha area, reducing eutrophication in 4 coastal waters Or 25% reduction in sewage pollution over 40,000 ha, reducing eutrophication in 4 coastal waters
	Partially Complete	At least 20% increase in forested and protected area over at least 20,000ha, reducing eutrophication in at least 2 coastal waters
	Mostly Incomplete	Measurable reductions in sewage pollution reducing sewage pollution in at least 2 coastal waters
	Incomplete	No significant reduction in sewage pollution

Baseline

Catchment area defined. Number of houses in catchment area needs to be defined. If direct measurement of waters quality or pollution loads is to be used, then a baseline is required.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	<p>7 Reduction in sewage pollution in Muri Community</p> <p>Will need to be assessed at a household level as pilot and partner projects unlikely to deliver sufficient reduction over project lifetime</p> <p>Note that if work undertaken by MoH with hotels in parallel with project, reduction may be achieved</p>	<input type="checkbox"/> 35% reduction in nutrients and organic loads at a household level from household trials	<input type="checkbox"/> Monitoring report endorsed by Steering Committee (Steering Committee minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Number of households <input type="checkbox"/> Groundwater monitoring adjacent to pilot sites <input type="checkbox"/> Study to determine sources of pollutants into Muri Lagoon to apportion sources
FSM	<p>7 Reduction in sewage pollution in Nett Watershed</p>	<input type="checkbox"/> 35% reduction in nutrients and organic loads from rural catchment households (5,000ha)	<input type="checkbox"/> Survey Reports endorsed by Steering Committee	<input type="checkbox"/> Catchment area <input type="checkbox"/> Pollution Source survey – number of households and sanitation methods
Nauru	<p>7 Reduction in sewage pollution in Ewa and Anetan Communities</p> <p>Can be assessed at a community level – likely to be close to this level of reduction across whole community if 50% achieved for each septic through secondary treatment</p>	<input type="checkbox"/> 35% reduction in nutrients and organic loads from communities (20 ha)	<input type="checkbox"/> Study report on demonstrations endorsed by Steering Committee	<input type="checkbox"/> Catchment area <input type="checkbox"/> Existing state of sanitation systems in demonstration site
RMI	<p>7 Reduction in sewage pollution in Laura Community (150 ha)</p> <p>Will need to be assessed at a household level as pilot and partner projects unlikely to deliver sufficient reduction over project lifetime</p> <p>Assume that this in turn leads to reduction in eutrophication of lagoon</p>	<input type="checkbox"/> 35% reduction in nutrients and organic loads from household trials	<input type="checkbox"/> Monitoring report endorsed by Steering Committee (Steering Committee minutes)	<input type="checkbox"/> Catchment area <input type="checkbox"/> Number of households <input type="checkbox"/> Groundwater monitoring adjacent to pilot sites

Country	Indicator	Target	Means of Verification	Baseline
Tonga	<p>7 Reduction in sewage pollution across Vava'u (10,000 ha)</p> <p>Pump-out of septic tanks should reduce nutrient and organic loads by about 25%</p> <p>Assume that this in turn leads to reduction of eutrophication in Refuge Harbour</p>	<input type="checkbox"/> 25% reduction in nutrients across Vava'u Island	<input type="checkbox"/> Pump-out truck report endorsed by Steering Committee (Steering Committee minutes)	<input type="checkbox"/> Island area <input type="checkbox"/> Number of households
Tuvalu	<p>7 Reduction in sewage pollution across Funafuti (180 ha)</p> <p>Composting toilets should reduce nutrients and organic pollution by over 90%</p>	<input type="checkbox"/> 5% reduction in sewage pollution over Funafuti	<input type="checkbox"/> Study report endorsed by Steering Committee	<input type="checkbox"/> Island area <input type="checkbox"/> Number of households
Vanuatu	<p>7 Reduction in sewage pollution across Sarakata watershed (30,000 ha)</p>	<input type="checkbox"/> 40% reduction in sewage pollution in Sarakata watershed	<input type="checkbox"/> Study report endorsed by Steering Committee	<input type="checkbox"/> Watershed area <input type="checkbox"/> Number of households

LOGFRAME TARGET 5

35% reduction in water leakage for systems supplying ~85,000 people by month 42 including a 40% reduction from existing baseline levels in 1 water supply system

Proposed Indicator

8. Reduction in water leakage

Water leakage reduction can be undertaken at household and/or system level. Household level leakage reduction assessment for large catchment relies on either extrapolation of single household savings or distribution reduction. System wide reduction leakage reduction is easier to assess, where meters are available.

One challenge associated with this indicator is to determine what aspects are due to system leakage, compared with factors such as unaccounted usage, apparent losses (such as meter errors) and theft. Additionally, any measurements at a household level may be complicated by significant changes in water use patterns and water use efficiency (which may be likely given associated awareness raising campaigns). Finally, there are factors such as system pressure, that dramatically affect system losses (without altering the number or size of leaks) as leakage is directly proportional to pressure.

Clarification is also required on percentage of reduction – is this a percentage reduction in total leakage volume (which may be affected by interruption of supply) or a reduction in proportion of supply, which may be affected by supply volume and reliability. The latter is the proposed approach, reflecting a more reliable assessment of achievement in systems with variable supply and demand. Alternatively, is this a reduction in another more reliable indicator of performance, such as the Infrastructure leakage index (ILI), which recognises that there is a minimum (unavoidable) level of leakage, such as that commonly used by the International Water Association (IWA)⁴?

In order to simplify the process, it is proposed that simple indicators be used for this assessment; examples indicators include:

- i. Reduction in system losses measured through comparison of meters
- ii. Reduction in overall system use during off-peak (early morning hours)

In order to make losses comparable, system pressures would need to be recorded and losses modified accordingly. There is a necessary implicit assumption in this approach that all losses are leak-driven; disregarding theft, unmetered use, etc.

Population

The second aspect of this target, the population will need to be assessed, either through an average per connection estimate, census or DHS results if available.

Country Reporting

Scorecard:	Complete	Target reduction in water leakage for targeted supply population
	Mostly Complete	¾ of target reduction and area achieved
	Partially Complete	½ of target reduction and area achieved
	Mostly Incomplete	Significant measurable reduction in water leakage Or Strategy and funding in place, but groundworks not completed to deliver reduction in leakage reduction
	Incomplete	No significant reduction in sewage pollution

⁴ The issues and challenges of reducing non-revenue water (ADB, 2010), ISBN 978-92-9092-193-6

Reduction of 35% of systems supplying ~85,000 people

The achievement of this target is also highly reliant on the Samoa and Solomon Island projects, as the collective populations serviced by the Niue and Tonga projects is about 7,000 people (Niue and Neiafu). The population of Apia is only about 40,000, so collectively these projects won't meet the target. Solomon Islands has identified a demand management plan and leak identification programme, but does not currently have leak reduction flagged. Leak reduction may flow from the Solomon Island's project, and with a Honiara population of close to 80,000, this target may possibly be achieved.

Regional Reporting

Scorecard:	Complete	35% reduction in water leakage for systems supplying 85,000 people, including a 40% reduction in baseline levels in one system
	Mostly Complete	Achieve 35% reduction in water leakage from systems supplying over 40,000 people, including a 40% reduction in at least one system
	Partially Complete	At least 35% reduction in system water leakage at 2 project sites
	Mostly Incomplete	Measurable leakage reductions in systems in at least 2 coastal waters
	Incomplete	No significant reductions in system water leakage

Baseline

System populations defined and/or number of connections at project commencement; or as close as possible in time. System water use and leakage needs to be defined, including note of relevant target pressures.

Country	Indicator	Target	Means of Verification	Baseline
Niue	8 Reduction in water leakage loss for Alofi supplies Largely delivered through tank replacement, although metering of Alofi supplies should provide household level improvements	<input type="checkbox"/> 40% reduction in water leakage from system supplying 400 people	<input type="checkbox"/> Monitoring report endorsed by Steering Committee (Steering Committee minutes)	<input type="checkbox"/> Supply volume <input type="checkbox"/> Leakage <input type="checkbox"/> Population serviced <input type="checkbox"/> Pressures associated with leakage
Samoa	8 Reduction in water leakage loss in Apia Largely requiring work to be co-funded by Samoa Water Authority	<input type="checkbox"/> 30% reduction in water leakage from system supplying 40,000 people	<input type="checkbox"/> Implementation report endorsed by Steering Committee (Steering Committee Minutes)	<input type="checkbox"/> Supply volume <input type="checkbox"/> Leakage <input type="checkbox"/> Population serviced <input type="checkbox"/> Pressures associated with leakage
Solomon Islands	8 Reduction in water leakage losses in Honiara Dependent upon work to be co-funded by	<input type="checkbox"/> 35% reduction in water leakage from system supplying 80,000 people	<input type="checkbox"/> Report endorsed by Steering Committee (Steering Committee Minutes)	<input type="checkbox"/> Supply volume <input type="checkbox"/> Leakage <input type="checkbox"/> Population serviced <input type="checkbox"/> Pressures associated with leakage
Tonga	8 Reduction in water leakage losses in Vava'u Systematic leak identification program in partnership with Tonga Water Board. No funding allocated for infrastructure work – dependent upon co-funding by Tonga Water Board	<input type="checkbox"/> 40% reduction in water leakage from system in Vava'u supplying 5,000 people	<input type="checkbox"/> Leak reduction report endorsed by Steering Committee (Steering Committee Minutes)	<input type="checkbox"/> Supply volume <input type="checkbox"/> Leakage <input type="checkbox"/> Population serviced <input type="checkbox"/> Pressures associated with leakage

LOGFRAME TARGET 6

Average 30% increase in population with access to safe water supply and sanitation for 6 sites

Proposed Target:

6 sites with an average 30% increase in population with access to safe water supply and 6 sites with an average 30% increase in population with access to improved sanitation

There are few demonstration projects that are targeting significant improvements in access to both drinking water supply and sanitation. It is therefore considered that this target relates to a collective achievement of up to 12 project sites, rather than achievement of both targets at 6 sites

Proposed Indicators

9. Population with access to safe water supply

The definition of 'safe' drinking water requires clear definition. The World Health Organization Drinking Water Guidelines (WHO 2008)⁵ relates safe drinking water to risk management, recognising that the term 'safe' is relative rather than absolute. Accordingly, the WHO guidelines advocate a risk management process for drinking water protection, delivered through water safety plans (Bartram 2009)⁶.

Developing and implementing a water safety plan is one of the key recognised routes for increasing delivery of 'safe' drinking water. Other mechanisms include the expansion of existing 'safe' supplies, generally through access to existing networks or supplies and implementing existing water safety plans.

Defining the population with access would typically be achieved through utility connection estimates and/or census figures (or other survey techniques).

Examples indicators include:

- i. Population with access to a water supply with an active water safety plan
- ii. Population with access to reticulated centralised treated supply meeting regulated drinking water criteria

10. Population with access to sanitation

The term 'access to sanitation' implies consistency with the Millennium Development Goal (MDG) definition of access to improved sanitation including flush/pour flush to piped sewer system, septic tank or pit latrine; ventilated improved pit (VIP) latrine; pit latrine with slab or composting toilets (JMP 2010)⁷.

Increasing access to sanitation can be achieved through a combination of mechanisms, including installation of new sanitation systems or rehabilitation of failed systems. The GEF IWRM projects are reliant on both of these approaches. New demonstration composting toilets are being installed in Tuvalu and potentially RMI and Nauru. Demonstration secondary treatment systems are being installed in Tonga, Cook Islands and Nauru. Existing systems are being rehabilitated in Tonga through the re-establishment of a septic pump-out system and facilitation of septic system rehabilitation.

⁵ World Health Organization (2008). Guidelines for Drinking Water Quality. Geneva, WHO Press.

⁶ Bartram, J., L. Corrales, et al. (2009). Water safety plan manual: step-by-step risk management for drinking-water suppliers. Geneva, WHO Press.

⁷ WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (2010). Progress on Sanitation and Drinking-water: 2010 Update. Geneva, WHO Press.

Examples indicators include:

- i. Population with access to a improved sanitation
- ii. Population with septic tanks serviced by sludge pump-out trucks

Country Reporting

Scorecard: Complete	Target increase with access to safe supply / improved sanitation
Mostly Complete	$\frac{3}{4}$ of target access achieved <i>Or</i> Where WSP is the target, completion of WSP without budget allocation
Partially Complete	$\frac{1}{2}$ of target reduction and area achieved <i>Or</i> Strategy and funding in place, groundworks commenced but not completed to deliver improvement
Mostly Incomplete	Significant measurable increase in population with access to improved sanitation / water supply <i>Or</i> Strategy and funding in place, groundworks not yet commenced
Incomplete	No significant measurable increase in population with access to improved sanitation / water supply

30% increase in population with access to improved sanitation

The numbers of sanitation systems being installed under the GEF IWRM project are generally small. Tuvalu has the greatest number of toilets (40) being installed and these only represent about 5% of the Funafuti site houses.

Only two demonstration sites have identified significant rehabilitation of septic systems as part of their projects (Tonga and Nauru) and only Samoa has identified significant expansion of an existing system. Notably the wastewater treatment system in Samoa is dependent upon co-funding and largely beyond the control of the project.

As the number of toilets to be installed at other sites (RMI and Vanuatu) is limited, achieving the target of an average of 30% increase in population with access to improved sanitation will be strongly reliant on achieving this target at these sites.

Regional Reporting

Scorecard: Complete	Average 30% increase in population with access to safe water supply and sanitation for 6 sites
Mostly Complete	Average 20% increase in population with access to safe water supply and sanitation for 6 sites <u>or</u> Average 30% increase in population with access to safe water supply and sanitation for 5 sites <u>or</u> Average 30% increase in population with access to safe water supply (or sanitation) for 6 sites and a 15% increase in sanitation (or water supply) to a minimum of 4 sites
Partially Complete	Average 15% increase in population with access to safe water supply and sanitation for 6 sites <u>or</u>

	Average 30% increase in population with access to safe water supply and sanitation for 3 sites <u>or</u> Average 30% increase in population with access to safe water supply (or sanitation) for 4 sites and a 20% increase in sanitation (or water supply) to a minimum of 2 sites
<i>Mostly Incomplete</i>	Increase in population with access to safe water and sanitation for at least 3 sites
<i>Incomplete</i>	No significant increase in forested or protected areas

Baseline

Site population defined at project commencement; or as close as possible in time.
Population with access to safe water supply. Population with access to improves sanitation

Country	Indicator	Target	Means of Verification	Baseline
FSM	9 Population with access to safe water supply Trigger is the setting (and meeting) of water quality and safety baselines for the Nett Watershed Forest Reserve/Nanpil River	<input type="checkbox"/> 90% of Kolonia with safe drinking water (5,000 people)	<input type="checkbox"/> Audit against baselines by independent auditor	<input type="checkbox"/> Catchment area <input type="checkbox"/> Kolonia population <input type="checkbox"/> number of households
Nauru	10 Population with access to improved sanitation Installation of septic tanks and secondary treatment systems in Ewa and Anetan Districts	<input type="checkbox"/> 10% increase in access to sanitation systems in Ewa and Anetan (1,100 people)	<input type="checkbox"/> Commissioning report on sanitation systems endorsed by Steering Committee	<input type="checkbox"/> Number of households <input type="checkbox"/> Ewa and Anetan population <input type="checkbox"/> Number of houses with improved sanitation
Niue	9 Population with access to safe water supply WSP developed as part of co-funding. Delivery of WSP dependent upon project activities being delivered	<input type="checkbox"/> 90% of Alofi population (400 people)	<input type="checkbox"/> Audit of Niue WSP	<input type="checkbox"/> Catchment area <input type="checkbox"/> Alofi population <input type="checkbox"/> number of households
Palau	9 Population with access to safe water supply Delivery of WSP dependent upon project activities being delivered	<input type="checkbox"/> 90% of Koror with safe drinking water (14,000 people)	<input type="checkbox"/> Audit of Koror WSP	<input type="checkbox"/> Catchment area <input type="checkbox"/> Koror population <input type="checkbox"/> number of households
RMI	9 Population with access to safe water supply Delivery of WSP dependent upon project activities being delivered 10 Population with access to improved sanitation Rehabilitation of septic systems and sludge disposal systems will ensure that systems meet improved requirements	<input type="checkbox"/> 90% of Laura Village with safe drinking water (3,000 people) <input type="checkbox"/> 90% of Laura Village with access to sustainable sanitation (3,000 people)	<input type="checkbox"/> Audit of Majuro WSP <input type="checkbox"/> Report on completion of septic system rehabilitation endorsed by Laura Integrated Water and Land Management Advisory Committee	<input type="checkbox"/> Catchment area <input type="checkbox"/> Number of households <input type="checkbox"/> Laura population <input type="checkbox"/> Number of sanitation systems maintained and satisfying 'improved sanitation' definition
Samoa	10 Population with access to improved sanitation Based on commissioning of wastewater treatment plant as co-funded work	<input type="checkbox"/> 30% increase in Apia residents with access to improved sanitation (11,000 people)	<input type="checkbox"/> Commissioning of wastewater treatment plant	<input type="checkbox"/> Number of households <input type="checkbox"/> Apia population <input type="checkbox"/> Population serviced by WWTP
Solomon Islands	9 Population with access to safe water supply Development and implementation of WSP for Honiara. Need to ascertain the proportion of Honiara covered by WSP	<input type="checkbox"/> Increase of 90% of Honiara residents with access to safe water (70,000 people)	<input type="checkbox"/> WSP endorsed by Minister with budget allocated	<input type="checkbox"/> Honiara population <input type="checkbox"/> Number of households

Country	Indicator	Target	Means of Verification	Baseline
Tonga	<p>9 Population with access to safe water supply Household level WSP being developed and implemented in 30% of District households</p> <p>10 Population with access to improved sanitation Rehabilitation of septic systems and sludge disposal systems will ensure that systems meet improved requirements</p>	<p><input type="checkbox"/> 30% increase in access to safe water supplies in Neiafu (1,500 people)</p> <p><input type="checkbox"/> 90% increase in Neiafu residents with access to improved sanitation (4,500 people)</p>	<p><input type="checkbox"/> Survey by Town Officers endorsed by Steering Committee</p> <p><input type="checkbox"/> Audit on proportion of houses using the pump-out facilities by end of project</p>	<p><input type="checkbox"/> Island area</p> <p><input type="checkbox"/> Number of households in Neiafu</p> <p><input type="checkbox"/> Number of households on Vava'u</p>
Tuvalu	<p>10 Population with access to improved sanitation Installation of composting toilets, supported by co-funded toilets</p>	<p><input type="checkbox"/> 5% of Funafuti residents with access to improved sanitation (250 people)</p>	<p><input type="checkbox"/> Commissioning study endorsed by Steering Committee</p>	<p><input type="checkbox"/> Number of households</p> <p><input type="checkbox"/> Funafuti population</p>
Vanuatu	<p>9 Population with access to safe water supply Delivery of WSP dependent upon project activities being delivered including relocation of intakes</p> <p>10 Population with access to improved sanitation Rehabilitation of septic systems and sludge disposal systems will ensure that systems meet improved requirements</p>	<p><input type="checkbox"/> 90% increase in access to safe water supplies in Luganville (13,000 people)</p> <p><input type="checkbox"/> 2% increase in Sarakata watershed residents with access to improved sanitation (20 people)</p>	<p><input type="checkbox"/> Survey by Town Officers endorsed by Steering Committee</p> <p><input type="checkbox"/> Audit on proportion of houses using the pump-out facilities by end of project</p>	<p><input type="checkbox"/> Watershed area</p> <p><input type="checkbox"/> Number of households</p>

LOGFRAME TARGET 7

2 Basin Flood Risk Management Plans resulting in 10% reduction in infrastructure loss due to flooding (on approximately 18,000 ha of land) by end of project

Proposed Indicator

The delivery of a flood risk management plan is a relatively straightforward outcome, incorporating flood planning and early warning and response components.

Clarification is however required on the 10% reduction in infrastructure loss due to flooding by the end of the project. Infrastructure loss is typically mitigated through changes to long-term planning and development strategies, rather than rapid fixes. Within the lifetime of the project the measures that reasonably could be taken to address infrastructure loss are limited to instigating a flood early warning system and incorporating floodplain management strategies into urban planning policies. However, flood early warning systems for flash floods typically provide only minimal mitigation of infrastructure loss [Scawthorn et al (2006)⁸] and floodplain planning strategies are unlikely to significantly influence on-ground construction significantly during the project life.

Given that there is a large uncertainty in estimating flood losses [Merz et al (2004)⁹], demonstration of a 10% reduction in infrastructure damage would be a highly theoretical and pointless exercise. Flood plain management strategies are likely to require many years to enable planning tools (such as regulations and town plans) to guide development. However, in real terms, incorporating flood mitigation strategies into planning strategies will certainly lead to significant reductions in infrastructure damage.

In terms of an early warning system, Barszczyńska et al (2006)¹⁰ stated that a minimum early warning lead time of 30 minutes was required to save human life; with a threshold of one to two hours identified as the target, refined to reflect the local capacity to respond.

Based on the above, it is proposed instead that the target for this indicator be:

- 2 Basin flood risk management plans incorporating changes to land use planning to reflect floodplains and an early flood warning system providing a minimum of one hour lead time (on approximately 18,000 ha of land) by end of project

11. Flood Risk Management Plan

Examples indicators include:

- Flood Risk Management Plan endorsed by Cabinet/Minister*

Area

The second aspect of this target, the area can simply be determined through GIS or another form of mapping for the catchment area covered by the flood risk management plan. In order for the target area to be met, it is critical that the Nadi Basin flood risk management plan be completed.

An early warning system with minimum of one hour lead time

Assessing the lead time is based on the time available to community members to respond following them actually receiving the warning. There are numerous ways of delivering a warning at the community level, including sirens, loudspeakers; telephone messages and door-to-door responses. Examples of ways in which this criterion could be satisfied include:

⁸ HAZUS-MH Flood Loss Estimation Methodology. II. Damage and Loss Assessment, Natural Hazards Review, Vol. 7, No. 2, May 1, 2006

⁹ Estimation uncertainty of direct monetary flood damage to buildings, Natural Hazards and Earth System Sciences (2004) 4: 153–163

¹⁰ In time for the Flood: A methodological guide to local flood warning systems, ISBN 83-88897-64-0

- i. Completion of a flood warning system providing at least one hours warning to all sectors (community, commerce and agriculture) – demonstrable through trials and application
- ii. Embedding the target within the flood risk management plan

Country Reporting

Scorecard: Complete	Flood Risk Management Plan with early warning system endorsed by Cabinet with ongoing funding and floodplain incorporated into planning
Mostly Complete	Flood Risk Management Plan with early warning system endorsed by Cabinet and floodplain incorporated into planning
Partially Complete	Flood Risk Management Plan or early warning system endorsed by Cabinet
Mostly Incomplete	Draft Flood Risk Management Plan completed and/or components of early warning system
Incomplete	No significant progress on Flood Risk Management Plan or early warning system

Regional Reporting

Scorecard: Complete	2 flood risk management plans endorsed by the Cabinet/Minister including changes to land use planning to reflect floodplains and an early flood warning system providing a minimum of one hour lead time covering an area of 18,000 ha.
Mostly Complete	Completion of 2 flood risk management plans with changes to land use planning changes to land use planning to reflect floodplains and an early flood warning system providing a minimum of one hour lead time
Partially Complete	Changes to land use planning to reflect floodplains and/or an early flood warning system providing a minimum of one hour lead time in 2 catchments
Mostly Incomplete	Changes to land use planning to reflect floodplains and/or an early flood warning system providing a minimum of one hour lead time in at least one catchment
Incomplete	No significant improvement in flood risk management

Baseline

Catchment area defined.

Country	Indicator	Target	Means of Verification	Baseline
Fiji	<p>11 Nadi Basin Integrated Flood Management Plan (45,000 ha)</p> <p>Plan to incorporate early flood warning system to provide at least one hour warning and process for incorporating floodplains into planning regulations</p>	<input type="checkbox"/> Plan endorsed by Cabinet	<input type="checkbox"/> Cabinet minutes	<input type="checkbox"/> Catchment area
Vanuatu	<p>11 Sarakata Basin Integrated Flood Management Plan (10,000 ha)</p> <p>Plan to incorporate early flood warning system to provide at least one hour warning and process for incorporating floodplains into planning regulations</p>	<input type="checkbox"/> Plan endorsed by Cabinet	<input type="checkbox"/> Cabinet minutes	<input type="checkbox"/> Catchment area

LOGFRAME TARGET 8

4 SIDS have revised legislation in place to protect surface water quality by end of project

Proposed Indicator

12. Revised legislation protecting water quality

In order to satisfy this target, it is necessary for legislation to be revised and enacted. Some clarification is required on the protection of water quality. This could either be interpreted explicitly – i.e. that legislation explicitly refers to protection of water quality; or implicitly, through the protection of a catchment, potentially for biodiversity or forestry reasons, which may in turn have direct water quality protection outcomes.

No indication is provided of the water quality outcomes (environmental or protection of human health). However, generally protection for one purpose will have beneficial impacts on the other, therefore legislated protection for the purpose of drinking water or ecological protection is considered as meeting this target.

Examples indicators include:

- i. Declaration of water protection zones through legislation and/or regulation
- ii. Declaration of parks or reserves with limited development through legislation and/or regulation
- iii. New or revised water resources or water quality legislation

Country Reporting

Scorecard:	Complete	Revised legislation enacted and/or regulation gazetted
	Mostly Complete	Bill for revised legislation tabled in parliament/congress or draft regulations presented to Cabinet
	Partially Complete	Bill / Draft Regulations developed and consultation undertaken based on review of needs
	Mostly Incomplete	Study identifying legislation / regulations needs to protect surface water quality
	Incomplete	Legislation review not undertaken

Regional Reporting

Scorecard:	Complete	4 SIDS have revised legislation in place to protect surface water quality
	Mostly Complete	3 SIDS have revised legislation in place to protect surface water
	Partially Complete	2 SIDS have revised legislation in place to protect surface water quality
	Mostly Incomplete	1 SID has revised legislation in place to protect surface water quality
	Incomplete	No SIDS have revised legislation in place to protect surface water quality

Baseline

Existing legislation and regulations at start of project, identifying links to protection of water quality

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	12 Revised Legislation protecting surface water quality Currently plans include Policy implementation. Need to clarify any legislative reviews/revision	<input type="checkbox"/> Legislation enacted by Parliament by mid-2013	<input type="checkbox"/> Parliamentary record	<input type="checkbox"/> Legislation and Regulations relating to surface water quality
FSM	12 Revised Legislation protecting surface water quality Currently logframe only indicates tabling Bill with Cabinet – need to ensure that target is enactment of legislation	<input type="checkbox"/> Legislation enacted by Congress by mid-2013	<input type="checkbox"/> Congress record	<input type="checkbox"/> Legislation and Regulations relating to surface water quality
Palau	12 Ngerikiil Watershed is legislated/regulated as protected area Currently legislative changes for PES include in Logframe, but not for protection of water quality or legislative link for declaration of Ngerikiil Watershed	<input type="checkbox"/> Legislation enacted by Congress by mid-2013	<input type="checkbox"/> Congress record	<input type="checkbox"/> Legislation and Regulations relating to surface water quality
PNG	12 Revised Legislation protecting surface water quality Currently logframe only indicates tabling Bill with NEC – need to ensure that target is enactment of legislation	<input type="checkbox"/> Legislation enacted by NEC by mid-2013	<input type="checkbox"/> NEC record	<input type="checkbox"/> Legislation and Regulations relating to surface water quality
Samoa	12 Legislation for Water Resource Management Identified in the logframe as part of delivery of plans	<input type="checkbox"/> Legislation enacted by Parliament by end of 2012	<input type="checkbox"/> Parliamentary records	<input type="checkbox"/> Legislation and Regulations relating to surface water quality
Solomon Islands	12 Revised Legislation protecting surface water quality Currently logframe only indicates tabling Bill with Cabinet – need to ensure that target is enactment of legislation	<input type="checkbox"/> Legislation enacted by Parliament	<input type="checkbox"/> Parliamentary records	<input type="checkbox"/> Legislation and Regulations relating to surface water quality
Vanuatu	12 Revised Legislation protecting surface water quality Currently logframe only mentions Gazettal of Water Protection Zones	<input type="checkbox"/> Legislation enacted by Parliament	<input type="checkbox"/> Parliamentary records	<input type="checkbox"/> Legislation and Regulations relating to surface water quality

LOGFRAME TARGET 9

30% reduction in use of freshwater for sanitation purposes due to eco-sanitation expansion in 1 demo site

Proposed Indicator

13. Reduction in use of freshwater for sanitation purposes due to ecosanitation expansion

Clarification is required on the interpretation of a 30% reduction in freshwater use. The demonstration projects are based on demonstrating approaches as a catalyst for change, rather than funding wholesale infrastructure changes. It is therefore considered that it is appropriate to interpret the 30% reduction in freshwater use to be at a household level, rather than across the whole community (something that would be ultimately realised should the approach be replicated). Notably at a household level, the reduction in water use for sanitation following the installation of a composting toilet is close to 100% (minor volumes will be used for hand-washing and toilet cleaning)

Whilst composting toilets may be trialled in three or more countries (Tuvalu, Nauru and Marshall Islands) it is Tuvalu where they form the core of the demonstration project. However, in Tuvalu, even at the household level, clarification is required on a 30% reduction in freshwater use. Average household water use during non-drought periods may be as high as 101 L/person/day (Dawe 2001)¹¹. However, during a recent drought in Tuvalu, it is understood that many people with flush toilets simply stopped using them. With virtually no rain for several months during droughts, there is simply no water for flushing toilets and most people resort to open defecation (Lal et al 2006)¹². Against this baseline a 30% reduction is not possible to demonstrate. Even long-term where composting toilets are installed in houses with no existing toilets, there is no baseline use. However, the value of eco-sanitation was evident – provision of improved sanitation where there would have been none.

The most appropriate means of confirming a 30% reduction in freshwater for sanitation purposes would be through a comparative survey of toilet use; either before and after installation of a composting toilet within the same household, or between houses with and without composting toilets.

Examples indicators include:

- i. Comparison of water use for sanitation in house before and after installation of composting toilet under non-drought conditions
- ii. Comparison of water use for sanitation between similar households with and without composting toilets under non-drought conditions

The above indicators could be measured through surveys or use of diaries. The sensitive nature of the topic suggests that comparison of use within the same household before and after installation may be easier to accommodate.

¹¹ Ed Burke (2001) *An integrated approach to rainwater harvesting analysis using GIS and recommendations for roof-catchment legislation in Tuvalu*, SOPAC Technical Report 290, Suva

¹² Padma Lal, Kalesoma Saloa and Falealili Uila (2006) *Economics of liquid waste management in Funafuti, Tuvalu*, IWP-Pacific Technical Report (International Waters Project) no. 36. SPREP, Apia 31 p. ISBN: 978-982-04-0356-7

Country / Regional Reporting

Scorecard: Complete	Average 30% reduction in household water use achieved through installation of composting toilets
Mostly Complete	Average 25% reduction in household water use achieved through installation of composting toilets
Partially Complete	Composting toilets installed in households as the only toilets within the household, but no monitoring undertaken to assess reduction in freshwater use
Mostly Incomplete	Composting toilets installed in houses, but flush toilets continue to be used by some household members
Incomplete	No composting toilets installed

Baseline

Average household water use for sanitation prior to installation of composting toilets

Country	Indicator	Target	Means of Verification	Baseline
Nauru	13 Reduction in use of freshwater for sanitation purposes due to composting toilet installation Assumes that composting toilets will be trialled	<input type="checkbox"/> 30% reduction in household water use	<input type="checkbox"/> Study endorsed by Steering Committee and RTAG	<input type="checkbox"/> Average household water use for sanitation prior to installation of composting toilets
RMI	13 Reduction in use of freshwater for sanitation purposes due to composting toilet installation Assumes that composting toilets will be trialled	<input type="checkbox"/> 30% reduction in household water use	<input type="checkbox"/> Study endorsed by Steering Committee and RTAG	<input type="checkbox"/> Average household water use for sanitation prior to installation of composting toilets
Tuvalu	13 Reduction in use of freshwater for sanitation purposes due to composting toilet expansion Requires study to assess the water savings	<input type="checkbox"/> 30% reduction in household water use	<input type="checkbox"/> Study endorsed by Steering Committee and RTAG	<input type="checkbox"/> Average household water use for sanitation prior to installation of composting toilets

LOGFRAME TARGET 10

Replication of technical and water use efficiency lessons from project applied in future national and project based activities by end of project

Proposed Indicator(s)

14. Technical and water use efficiency lessons from project applied in future national and project based activities by end of project

Replication of technical and water use efficiency lessons can be driven by formal processes, such as development of Codes of Practice, or facilitated using informal processes, including guideline development and information transfer. The approach adopted for replication, development of a replication strategy and subsequent implementation, lends itself well to assessing this indicator against the replication strategy.

Other clear means of identifying replication is the expansion of existing projects through co-funding; reference to the project learnings in development of other projects/ national initiatives and replication of technical learnings on other islands from the demonstration project.

Options include:

- i. Development of Code of Practice or Regulations incorporating technical lessons
- ii. Co-funding to expand the project
- iii. Clear references to lessons learned in framing the strategy of other projects
- iv. Replication of technology in other parts of the demonstration country

Country Reporting

Scorecard: Complete	Technical and water use efficiency lessons replicated nationally and/or on projects
Mostly Complete	Replication strategy developed; lessons, audiences and tools under development
Partially Complete	Replication strategy developed; lessons, audiences and tools identified
Mostly Incomplete	Replication strategy developed, but lessons and audiences not identified
Incomplete	Best practices not defined

Regional Reporting

Scorecard: Complete	Replication demonstrated in 12 countries
Mostly Complete	Replication demonstrated in 9 countries
Partially Complete	Replication demonstrated in 5 countries
Mostly Incomplete	Replication demonstrated in up to 3 countries
Incomplete	Replication not demonstrated in any countries

The baseline of this indicator may need to be established late in the project as application of lessons learned will often depend on the nature and applicability of the lessons. Baselines will relate directly to the replication and provide status of activities prior to replication (e.g. no composting toilets on Outer Islands of Tuvalu prior to the demonstration project or Code of Practice does not incorporate composting toilets).

Nb. The uncertain nature of the types of replication lessons in many countries means that demonstration of this target using the suggested approach will require review. It is proposed that this be undertaken through a process of one or more technical lesson replication reports, identifying the lessons and the means of replication. Review/ audit can then be provided by the RTAG or an independent auditor.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	<p>14 Lessons learned incorporated into other project(s) and/or Regulations</p> <p>Likely to be delivered through the NZAid and/or EU Muri projects with uptake of the learnings from the household sanitation. Links need to be clearly identified to support audit.</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or island-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
Fiji	<p>14 Lessons learned incorporated into other project(s), catchment flood management plans and/or Regulations</p> <p>Likely to be delivered through the other catchment flood planning strategies such as the Ba, Sigatoka, Navua and Rewa Rivers. Lessons that may be incorporated include communications, flood modelling and early warning systems.</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or catchment-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement <input type="checkbox"/> Status of flood management / EWS approaches in other catchments prior to applying project lessons
FSM	<p>14 Lessons learned incorporated into other States or other catchments on Pohnpei</p> <p>Likely to be delivered in Chuuk State through Output 1.5 (<i>Extension of examples of best practice and lessons learned from Nett Watershed in Chuuk State</i>); although application of lessons learned from Component 2 [<i>Protecting Fresh and Marine Water Quality (including grow low sakau demonstration plots; pig waste bio-gas demonstration; and pig waste dry litter demonstration)</i>]</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or catchment-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement <input type="checkbox"/> Status of waste and land management approaches in other catchments or States prior to applying project lessons
Nauru	<p>14 Lessons learned incorporated into other project(s) and/or Regulations</p> <p>Likely to be delivered through the AusAid and/or other projects with uptake of the learnings from the household sanitation. Links need to be clearly identified to support audit.</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or island-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement

Country	Indicator	Target	Means of Verification	Baseline
Niue	<p>14 Lessons learned incorporated into other project(s) and/or Regulations</p> <p>Likely to be delivered through the amendments to the Building Code and/or standards for waste, waste oil and/or agrochemicals management.</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
Palau	<p>14 Lessons learned incorporated into other project(s) and/or Regulations</p> <p>May be delivered through replication of the Payment for Ecosystem Services (PES) the AusAid and/or other projects with uptake of the learnings from the household sanitation. Links need to be clearly identified to support audit.</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or island-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
PNG	<p>14 Lessons learned incorporated into other project(s), catchment flood management plans and/or Regulations</p> <p>May be delivered through the other catchment flood planning strategies. Lessons that may be incorporated include communications, flood modelling and early warning systems.</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or catchment-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement <input type="checkbox"/> Status of flood management / EWS approaches in other catchments prior to applying project lessons
RMI	<p>14 Lessons learned incorporated into other project(s) and/or Regulations</p> <p>May be delivered through replication of piggery waste management and composting, or composting toilets.</p> <p>Alternatively, outcomes from demonstration pilot may be incorporated into national or island-based regulations or Codes</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
Samoa	<p>14 Lessons learned incorporated into other project(s) and/or Regulations</p> <p>May be delivered through national Water Safety Plan, or alternatively replication strategy (Output 0.1)</p>	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement

Country	Indicator	Target	Means of Verification	Baseline
Solomon Islands	14 Lessons learned incorporated into other project(s) and/or Regulations Likely to be delivered through replication strategy (Output 1.5)	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
Tonga	14 Lessons learned incorporated into other project(s) and/or Regulations Likely to be delivered through replication strategy	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
Tuvalu	14 Lessons learned incorporated into other project(s) and/or Regulations Likely to be delivered through changes to Building Code of Practice and through replication strategy. Options likely to include replication of composting toilets on Outer Islands and incorporation into national Code	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement
Vanuatu	14 Lessons learned incorporated into other project(s) and/or Regulations Likely to be delivered through implementation of best practice manuals (Output 3.4). Alternatively may also be delivered through replication of technology transfer to other catchments or development of regulations	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Technical lesson replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Initial project documents if written prior to GEF IWRM project <input type="checkbox"/> Regulations or Codes prior to project commencement

LOGFRAME TARGET 11

Technical, management, participatory and advocacy lessons from projects developed into national lessons learned presentation packages with mainstreaming into national and regional approaches by end of project facilitated by national IWRM APEX bodies, Project Steering Committee, Pacific Partnership, and PCU

Also

Replication Framework in place by June 2009, Replication Toolkit in place by end 2010, National scaling-up and replication strategies in place based on Demonstration project success and failures for each country by June 2013

Proposed Target:

Technical, management, participatory and advocacy lessons from projects developed into national lessons learned presentation packages with mainstreaming into national and regional approaches by end of project.

Delays in the initiation of many projects, including recruitment of project managers, have meant that the interim timeframes were not achievable. The target has been reworded to reflect the outcome of the targets, rather than the details.

Proposed Indicator(s)

15. National lessons learned presentation packages with mainstreaming into national and regional approaches by end of project

The mechanisms for delivering this may vary from country to country; however they will be strategically similar in terms of developing and implementing a replication strategy. It is important that the replication strategy address the facilitation roles and responsibilities of the IWRM APEX bodies, Project Steering Committee, Pacific Partnership and PCU.

Options include:

- i. Changes to legislation or regulation to incorporate project lessons – this may be hard to demonstrate as a stand-alone indicator
- ii. Replication strategy developed and implemented to mainstream lessons learned

Country Reporting

Scorecard:	Complete	Replication demonstrated by end of project
	Mostly Complete	National lessons learned presentation packages with mainstreaming into national approach
	Partially Complete	Replication strategy developed; lessons, audiences and tools identified
	Mostly Incomplete	Replication strategy developed, but lessons and audiences not identified
	Incomplete	Best practices not defined

Regional Reporting

Scorecard:	Complete	Replication demonstrated in 12 countries
	Mostly Complete	Replication demonstrated in 9 countries
	Partially Complete	Replication demonstrated in 5 countries
	Mostly Incomplete	Replication demonstrated in up to 3 countries
	Incomplete	Replication not demonstrated in any countries

The baseline of this indicator may need to be established late in the project as application of lessons learned will often depend on the nature and applicability of the lessons. Baselines will relate directly to the replication and provide status of activities prior to replication (e.g. separate steering committees for each international project in Cook Islands prior to the GEF IWRM project).

Nb. The uncertain nature of the types of replication lessons in many countries means that demonstration of this target using the suggested approach will require review. It is proposed that this be undertaken through a process of one or more technical lesson replication reports, identifying the lessons and the means of replication. Review/ audit can then be provided by the RTAG or an independent auditor.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Fiji	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
FSM	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Nauru	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Niue	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement

Country	Indicator	Target	Means of Verification	Baseline
Palau	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
PNG	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
RMI	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Samoa	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Solomon Islands	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement

Country	Indicator	Target	Means of Verification	Baseline
Tonga	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Tuvalu	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement
Vanuatu	15 Replication strategy developed and implemented to mainstream lessons learned Replication strategy will need to reflect the roles and responsibilities in mainstreaming the lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> Replication report endorsed by RTAG or independent auditor	<input type="checkbox"/> Policies, Regulations or Codes prior to project commencement

LOGFRAME TARGET 12

Indicator feedback facilitated through IWRM APEX Body provides information for multi-sectoral action and endorsement of national indicators for IWRM, NAPA, NAP and sustainable development planning (NSDSs and NEAPs) by end of project

Also

APEX body leading institutional training in consistent data collection and development of national monitoring rationale by end 2011 and national recruitment of support adviser to national APEX bodies by 2009

Proposed Target:

National IWRM indicator framework established with formal reporting at a national level, facilitated by APEX body

The above target reflects the need to ensure that national indicators are embedded within core government reporting functions, reflected multi-sectorally. The role of the APEX body is highlighted in this process. Delivery of support to the APEX bodies has evolved from the initial project planning, and countries have typically linked this back to the project management unit, rather than engaging someone directly to the APEX body.

Delays in the initiation of many projects, including recruitment of project managers, have meant that the interim timeframes were not achievable. The target has been reworded to reflect the outcome of the targets, rather than the details.

Proposed Indicator(s)

16. National IWRM indicator framework embedded in formal national reporting

The mechanisms for formally embedding the national IWRM indicator framework into national reporting are varied, including through national strategies such as the National Sustainable Development Strategy (NSDS); National Environmental Action Plan (NEAP); National Adaptation Programme of Action (NAPA) and National Action Plan (NAP) or reporting through national censuses and demographic health surveys.

The indicator framework should be developed through a consultative process, with clear indicators and targets, with reporting tools, timeframes and responsibilities clearly identified.

Options include:

- i. Report outlining national indicator framework, with indicators, targets, reporting mechanisms, timeframes and responsibilities
- ii. Another mechanism for formally defining and endorsing a national indicator framework

The timing cycles of several reporting tools (such as the NAPAs and NSDSs) may mean that it is not logistically possible to incorporate all indicators within the project cycle (some reporting reviews are on three to five year cycles). Whilst it may not be possible to incorporate the indicators into these reports within the demonstration project cycle, endorsement of the report and framework (including reporting) at a Ministerial or Cabinet level would satisfy this requirement.

Country Reporting

Scorecard:	Complete	National IWRM indicator framework embedded in formal national reporting
	Mostly Complete	National IWRM indicator framework endorsed by Minister/Cabinet; but reporting mechanisms not identified
	Partially Complete	National IWRM indicator framework endorsed by APEX body
	Mostly Incomplete	Draft National indicator framework developed for consultation
	Incomplete	No significant progress on national indicator framework

Regional Reporting

Scorecard:	Complete	National indicator framework endorsed in 12 countries
	Mostly Complete	National indicator framework endorsed in 9 countries
	Partially Complete	National indicator framework endorsed in 5 countries
	Mostly Incomplete	National indicator framework endorsed in up to 3 countries
	Incomplete	National indicator framework not endorsed in any countries

No baseline is required; although project review and reporting cycles should be determined.

Country	Indicator	Means of Verification	Baseline
Cook Islands	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Fiji	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
FSM	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Nauru	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Niue	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Palau	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
PNG	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
RMI	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Samoa	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Solomon	16 National IWRM indicator framework	<input type="checkbox"/> Endorsement by	<input type="checkbox"/> None required

Country	Indicator	Means of Verification	Baseline
Islands	embedded in formal national reporting	Minister	
Tonga	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Tuvalu	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Vanuatu	16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required

LOGFRAME TARGET 13

Increase in national staff (both men and women) across institutions with IWRM knowledge and experience by end of project

Proposed Indicator(s)

17. National staff across institutions with IWRM knowledge and experience

Several options are available for assessing the progress against this target; however, it is critically important to assess the baseline as close as possible to the project commencement

Options include:

- i. Survey of relevant staff – not that this could be a particularly onerous approach and may be met with resistance by agencies not recognising the relevance. Note that this could be a targeted review, with only agencies and staff with likely experience and awareness targeted
- ii. Review of training records and staff records – intensive for one or two staff members and potentially government human resources staff, although less disruptive across government
- iii. Targeted training combined with targeted surveys – probably the most efficient mechanism for assessing government baseline knowledge and experience. The approach is that targeted training is associated with (short) surveys to both attendees and their managers – the attendees to identify baseline knowledge and experience; the managers to identify other capacity within government

A secondary approach, where it is not possible to show a direct increase in national staff with IWRM knowledge and experience is to show a significant increase in formal and informal training in IWRM and direct work experience (through job descriptions) where there previously was none. Whilst this doesn't allow a numerical assessment against the proposed indicator, it is considered an acceptable proxy for this target.

Country Reporting

Scorecard:	Complete	Increased national staff across institutions with IWRM knowledge and experience
	Partially Complete	Increased national staff across institutions with IWRM knowledge
	Incomplete	No significant increases in national staff with IWRM knowledge and experience

Regional Reporting

Scorecard:	Complete	Increase in national staff with IWRM knowledge and experience in 12 countries
	Mostly Complete	Increase in national staff with IWRM knowledge and experience in 9 countries
	Partially Complete	Increase in national staff with IWRM knowledge and experience in 5 countries
	Mostly Incomplete	Increase in national staff with IWRM knowledge and experience in up to 3 countries
	Incomplete	No significant increases in national staff with IWRM knowledge and experience

It is important that the baseline is established as near as possible to the project commencement. The baseline will be established through the same mechanism as the indicator (i.e. through survey, review of training staff records, targeted training combined with surveys or a review of training courses and job descriptions).

Country	Indicator	Means of Verification	Baseline
Cook Islands	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements
Fiji	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements
FSM	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements
Nauru	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements
Niue	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements
Palau	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements
PNG	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements

Country	Indicator	Means of Verification	Baseline
RMI	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements at project commencement
Samoa	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements at project commencement
Solomon Islands	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements at project commencement
Tonga	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements at project commencement
Tuvalu	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements at project commencement
Vanuatu	17 National staff across institutions with IWRM knowledge and experience Target is to show an increase in staff knowledge and experience, or by proxy through training and work roles	<input type="checkbox"/> National capacity report	<input type="checkbox"/> Survey of staff IWRM knowledge and experience <input type="checkbox"/> Review of staff IWRM training and experience records <input type="checkbox"/> Training surveys <input type="checkbox"/> Review of IWRM training and job requirements at project commencement

LOGFRAME TARGET 14

30% increase in gender balanced community and wider stakeholder engagement in water related issues by month 60

Proposed Indicator(s)

18. Proportion of community engaged in water related issues

Engagement in water related issues cuts across a range of activities from the more passive forms such as information exchange to the more active such as collaborating or empowering. Whilst it is not practical to fully capture the complexity of these interactions, measuring increases in both passive and active engagement provides a general indication of the change in engagement.

The types of passive engagement that could be considered include meetings with information exchange such as community meetings with information exchange, demonstration sites, television shows, radio shows, school visits, etc. Types of meetings with active engagement would include community workshops where decisions are made, participatory projects, governance meetings, school tree plantings, etc.

Country Reporting

Scorecard: Complete	30% increase in gender balanced community and wider stakeholder awareness raising and active engagement
Mostly Complete	30% increase in gender balanced community and wider stakeholder awareness raising or active engagement and at least 15% in the other
Partially Complete	15% increase in gender balanced community and wider stakeholder awareness raising and active engagement
Mostly Incomplete	Measurable increases in community and stakeholder awareness raising and active engagement
Incomplete	No significant increases in community and stakeholder awareness raising and active engagement

Regional Reporting

Scorecard: Complete	30% increase achieved in 12 countries
Mostly Complete	30% increase achieved in 9 countries
Partially Complete	15% increase in gender balanced community and wider stakeholder awareness raising and active engagement achieved in 9 countries
Mostly Incomplete	Measurable increases in community and stakeholder awareness raising and active engagement in up to 3 countries
Incomplete	No significant increases in community and stakeholder awareness raising and active engagement

The key aspect of establishing a baseline is the identification of the types of passive and active engagement to be considered for monitoring, based on key media. These indicators should then be incorporated into the project engagement strategy, so that data can be collected and reported.

An example might include:

Passive:

- Number of attendees at community meetings with a focus on water issues (combination of number of attendees and meetings)
- Television coverage dedicated to water issues

Active:

- Proportion of civil society and commerce represented on official government meetings
- Number of attendees at community workshops making decisions on water issues (combination of number of attendees and meetings)

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Fiji	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
FSM	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Nauru	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Niue	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Palau	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
PNG	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement

Country	Indicator	Target	Means of Verification	Baseline
	active engagement	engagement activities		
RMI	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Samoa	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Solomon Islands	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Tonga	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Tuvalu	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement
Vanuatu	18 Proportion of community engaged in water related issues Measure attendance at awareness raising activities and at activities with active engagement	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input type="checkbox"/> Engagement report endorsed by Steering Committee	<input type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement

LOGFRAME TARGET 15

Improved cross-sectoral communication by end of project

Proposed Target:

Improved cross-sectoral communication on water issues by end of project

The above target reflects the focus and scope of the GEF IWRM project.

Proposed Indicator(s)

19. Sectors actively engaged in formal multilateral communication on water issues

Cross-sectoral communication consists of both formal and informal mechanisms and both are important to delivering IWRM outcomes. Informal communications (such as telephone conversations, informal meetings and discussions that occur outside of formal meetings) provide the context and detail around water issues, as well as developing working relationships. Formal communication provides a mechanism for decision-making and defining roles and responsibilities.

Whilst informal communication is important to mainstreaming IWRM, the Project Document¹³ identified that currently countries are struggling with formal cross-sectoral communication. It is also recognised that bringing other sectors into the formal discussions should initiate broader informal discussions.

It is important to recognise that there are multiple levels at which communication occurs across sectors. Accordingly, the proposed indicator reflects the involvement of different sectors engaged on water issues at formal meetings at the national level and other formal multi-lateral meetings at senior government level. The meetings to be considered include:

- National APEX body
- National forums
- Project Steering Committees
- Formal project meetings
- Other formal national meetings on water issues

Sectors to be involved should include, but not be limited to finance; education; health; commerce; tourism; fisheries; agriculture; utilities and environment

Country Reporting

Scorecard:	Complete	Increased cross-sectoral engagement in formal multi-lateral communication
	Mostly Incomplete	Strategy developed to increase cross-sectoral engagement in formal multi-lateral communication
	Incomplete	No significant increases in formal multi-lateral communication

¹³ United Nations Development Programme (2004). UNDP Project Document - Implementing Sustainable Water Resources and Wastewater Management in Pacific Island Countries. Bangkok, United Nations Development Programme: 216, *ibid*.

Regional Reporting

Scorecard:	Complete	Improved cross-sectoral communication in 13 countries
	Mostly Complete	Improved cross-sectoral communication in 9 countries
	Partially Complete	Improved cross-sectoral communication in 5 countries
	Mostly Incomplete	Improved cross-sectoral communication in up to 3 countries
	Incomplete	Improved cross-sectoral communication in not demonstrated in any countries

Baseline will need to be established as early as possible in the project, identifying the engagement of different sectors in formal meetings on water.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Fiji	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
FSM	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Nauru	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Niue	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Palau	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
PNG	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
RMI	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Samoa	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement

Country	Indicator	Target	Means of Verification	Baseline
Solomon Islands	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Tonga	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Tuvalu	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement
Vanuatu	19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> Review of formal meetings endorsed by Steering Committee	<input type="checkbox"/> Sectors represented in formal meetings prior to project commencement

LOGFRAME TARGET 16

Water Safety Plans in place and enacted in 3 peri-rural and 2 urban areas

Proposed Indicator(s)

20. Water Safety Plans in place and enacted

In order for the Water Safety Plan (WSP) to be effective it needs formal endorsement as government policy and budget to be implemented. Endorsement can typically be achieved by Ministerial endorsement; however, several options are available for identifying a budget allocation, including:

- i. Discrete budget line
- ii. Clear ability to break down budget and identify allocation
- iii. Legal mechanism to draw funds directly from another source (e.g. levy payments)

Country Reporting

Scorecard: Complete	WSP endorsed by Minister with budget allocation
Mostly Complete	WSP endorsed by Minister without budget allocation
Partially Complete	WSP completed including consultation and endorsed by Steering Committee
Mostly Incomplete	WSP under development
Incomplete	Planning process not defined

Regional Reporting

Scorecard: Complete	Water Safety Plans in place and enacted in 3 peri-rural and 2 urban areas
Mostly Complete	Water Safety Plans in place and enacted at 4 sites (combination peri-rural and urban areas)
Partially Complete	Water Safety Plans in place and enacted at 3 sites
Mostly Incomplete	Water Safety Plans in place and enacted at one or two sites
Incomplete	No Water Safety plans enacted

No baseline is required.

Country	Indicator	Target	Means of Verification	Baseline
Niue	20 Water Safety Plans for Alofi North and Alofi South (peri-urban)	<input type="checkbox"/> Plan implemented	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Palau	20 National Water Safety Plan (peri-urban)	<input type="checkbox"/> Plan implemented	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
RMI	20 Majuro Water Safety Plan (urban)	<input type="checkbox"/> Plan implemented	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Samoa	20 Apia Water Safety Plan (urban)	<input type="checkbox"/> Plan implemented	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Solomon Islands	20 Honiara Water Safety Plan (urban)	<input type="checkbox"/> Plan implemented	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required

LOGFRAME TARGET 17

Sustainable forest & land management practices established and trialled with landowners in 2 demo sites

Proposed Indicator(s)

21. Sustainable forest & land management practices established and trialled with landowners

Relies on capacity to clearly identify that site is established and practices being trialled and then subsequently demonstrated or disseminated through publications or other education and training material.

Options include:

- i. Establishment of demonstration site; confirmed by visits from people outside the project
- ii. Establishment and trial of approaches on a study sites; confirmed by publishing guidelines, codes, regulations, education and training material or similar based on site studies

Country Reporting

Scorecard: Complete	Sustainable forest & land management practices established and trialled with landowners; with demonstration at site or dissemination of practices
Mostly Complete	Sustainable forest & land management practices established and trialled with landowners; demonstration aspects identified
Partially Complete	Sustainable forest & land management practices established and trialled with landowners
Mostly Incomplete	Land and practices identified for demonstration site; but on-ground works not completed
Incomplete	No significant progress on sustainable forest and land management practices

Regional Reporting

Scorecard: Complete	Sustainable forest & land management practices established and trialled with landowners in 2 demo sites
Partially Complete	Sustainable forest & land management practices established and trialed with landowners at one demo site
Incomplete	No demonstration sites established

Baseline to be established is that the demonstration site was not established prior to the project; or the site was established, but not operating as a demonstration site for the practices under review.

Country	Indicator	Target	Means of Verification	Baseline
Fiji	21 Sustainable forest & land management practices established and trialled with landowners	<input type="checkbox"/> Sustainable forestry site to be established in Nadi Basin upper catchment	<input type="checkbox"/> Completion report endorsed by Steering Committee <input type="checkbox"/> Development of guidelines; codes; best practice manual; etc	<input type="checkbox"/> Review of site practices prior to commissioning trial
FSM	21 Sustainable forest & land management practices established and trialled with landowners	<input type="checkbox"/> Low grow sakau and pig waste management site to be established in Nanpil river catchment	<input type="checkbox"/> Completion report endorsed by Steering Committee <input type="checkbox"/> Development of guidelines; codes; best practice manual; etc	<input type="checkbox"/> Review of site practices prior to commissioning trial
Palau	21 Sustainable forest & land management practices established and trialled with landowners	<input type="checkbox"/> One year trial of pollution reduction initiative at one market garden/livestock area	<input type="checkbox"/> Completion report endorsed by Steering Committee <input type="checkbox"/> Development of guidelines; codes; best practice manual; etc	<input type="checkbox"/> Review of site practices prior to commissioning trial
Vanuatu	21 Sustainable forest & land management practices established and trialled with landowners	<input type="checkbox"/> Establishing 6 demonstration plots in the GTZ Forest Reserve and demonstration plots in 4 communities (Fanafo, Monixhill, Nagar and Mango)	<input type="checkbox"/> Completion report endorsed by Steering Committee <input type="checkbox"/> Development of guidelines; codes; best practice manual; etc	<input type="checkbox"/> Review of site practices prior to commissioning trial

LOGFRAME TARGET 18

40% reduction in GW and marine pollution discharge at 2 demo sites from sewage and manure and a 20% reduction in 2 urban/peri-urban areas

Proposed Indicator(s)

22. Nitrogen pollution load discharged to groundwater and/or coastal waters from sewage and/or manure

Pollution reduction can be achieved through reducing the volume of wastewater discharge or improving the quality of the discharge. Assessing volume reduction against the target is relatively simple (assuming no significant change in wastewater quality); however treating wastewater often addresses different components of the waste. For example many nutrient reduction processes do not significantly reduce pathogens; whereas disinfection processes targeting pathogens generally do not reduce nutrients.

The primary pollutants to groundwater and coastal waters from sewage and manure tend to be organic matter, phosphorus, nitrogen and pathogens. Of these pollutants, nitrogen is commonly the most conservative and mobile pollutant in groundwater¹⁴. Phosphorus is commonly attenuated in organic soils, organic matter is often also captured close to the source and pathogens die relatively rapidly in groundwater. Accordingly, nitrogen reduction is potentially the best indicator of significant reduction in pollution discharged to groundwater. Given that organic matter and phosphorus are typically reduced with most processes that also remove nitrogen (usually through bacterial breakdown), nitrogen is considered a reasonable marker for this target.

Options for demonstrating nitrogen reductions in discharges include:

- i. Reduction in wastewater discharge volume
- ii. Reduction in nitrogen content of wastewater

Country Reporting

Scorecard:	Complete	Target reduction in sewage and/or manure pollution
	Mostly Complete	¾ of target reduction achieved
	Partially Complete	½ of target reduction achieved
	Mostly Incomplete	Significant measurable reduction in sewage and/or manure pollution
		Or
		Strategy and funding in place, but groundworks not completed to deliver reduction in pollution
	Incomplete	No significant reduction in sewage or manure pollution

¹⁴ United States Environmental Protection Agency (1993). Guidance Specifying Management Measures For Sources of Nonpoint Pollution in Coastal Waters Washington, DC, United States Environmental Protection Agency.

Regional Reporting

Scorecard: Complete	40% reduction achieved in 2 rural areas and 20% reduction achieved in 2 urban/peri-urban areas
Mostly Complete	3 of 4 sites achieve: 40% reduction in 2 rural areas and 20% reduction in 2 urban/peri-urban areas
Partially Complete	2 of 4 sites achieve: 40% reduction in rural areas and 20% reduction in urban/peri-urban areas Or 20% reduction achieved in 2 rural areas and 10% reduction achieved in 2 urban/peri-urban areas
Mostly Incomplete	40% reduction achieved in a rural area or 20% reduction achieved in an urban/peri-urban area Or Measurable reduction in at least 3 sites
Incomplete	No significant reduction in wastewater discharges

Baseline information will be required for wastewater volume and current treatment processes.

Assessing reduction

There are several reasonable estimation techniques for measuring reductions in wastewater volume, including:

- Source removal would eliminate 100% of wastewater discharges – this could be achieved through establishing centralised systems together with reuse or alternative disposal (there is obviously a need to ensure that the problem is not just shifted), water-free systems (such as composting toilets) or reuse
- Metering discharge – typically would use one or several representative systems as potentially expensive

Mechanisms for estimating pollution load reduction include:

- Direct measurement – ideal for assessing reduction; however likely to be expensive to collect and analyse adequate representative data
- Using estimates of pollution reduction from reliable sources. For example, rehabilitating a septic tank and implementing a sludge pump-out service would effectively improve the wastewater management from a cesspit style arrangement to a septic, effectively delivering a 20-30% reduction in pollution¹⁵.

¹⁵ Ibid.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	<p>22 Nitrogen pollution discharged to groundwater and Muri Lagoon</p> <p>Piggery waste pollution to lagoon should be eliminated in catchment through initiatives to move piggeries from adjacent to creeks and install bunding. Reduction in sewage pollution is likely to be limited to a household level as pilot and partner projects unlikely to deliver sufficient reduction whole site during project lifetime</p> <p>Note that if work undertaken by MoH with hotels in parallel with project, reduction may be achieved</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 90% reduction in nitrogen discharged to the lagoon from piggeries <input type="checkbox"/> 35% reduction in nitrogen loads at a household level from household trials 	<ul style="list-style-type: none"> <input type="checkbox"/> Monitoring report endorsed by Steering Committee (Steering Committee minutes) 	<ul style="list-style-type: none"> <input type="checkbox"/> Catchment area <input type="checkbox"/> Number of households <input type="checkbox"/> Groundwater monitoring adjacent to pilot sites <input type="checkbox"/> Study to determine sources of pollutants into Muri Lagoon to apportion sources
FSM	<p>22 Nitrogen pollution from piggeries in Nett Watershed</p> <p>Piggery waste reduction achieved through dry litter waste management uptake and biogas generation</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 80% reduction in nitrogen pollution from piggery wastes at piggery demonstration sites 	<ul style="list-style-type: none"> <input type="checkbox"/> Study Reports endorsed by Steering Committee (Steering Committee minutes) 	<ul style="list-style-type: none"> <input type="checkbox"/> Assessment of piggery waste generation from piggery
Nauru	<p>22 Reduction in sewage pollution in Ewa and Anetan Communities</p> <p>Can be assessed at a community level – likely to be close to this level of reduction across whole community if 50% achieved for each septic through secondary treatment</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 35% reduction in nitrogen pollution from sewage 	<ul style="list-style-type: none"> <input type="checkbox"/> Study report on demonstrations endorsed by Steering Committee (Steering Committee minutes) 	<ul style="list-style-type: none"> <input type="checkbox"/> Catchment area <input type="checkbox"/> Existing state of sanitation systems in demonstration site
Niue	<p>22 Reduction in nitrogen pollution from piggery and sewage wastes in Niue groundwater catchment</p> <p>Rehabilitation of failing septic systems will provide at least a 25% reduction in nitrogen pollution (significantly more if these are associated with irrigation beds)</p> <p>Piggery waste reduction achieved through piggery effluent collection tanks. Nitrogen reduction through proportion of waste collected in effluent collection tanks</p>	<ul style="list-style-type: none"> <input type="checkbox"/> 25% reduction in nitrogen due to sewage pollution <input type="checkbox"/> 80% reduction in nitrogen pollution from piggery waste at piggery demonstration sites 	<ul style="list-style-type: none"> <input type="checkbox"/> Study Reports endorsed by Steering Committee (Steering Committee minutes) 	<ul style="list-style-type: none"> <input type="checkbox"/> Household septic tank survey <input type="checkbox"/> Assessment of piggery waste generation from piggery

Country	Indicator	Target	Means of Verification	Baseline
RMI	<p>22 Reduction in sewage pollution in Laura Community</p> <p>Will need to be assessed at a household level as pilot and partner projects unlikely to deliver sufficient reduction over project lifetime</p>	<p><input type="checkbox"/> 35% reduction in pollution from household trials</p>	<p><input type="checkbox"/> Monitoring report endorsed by Steering Committee (Steering Committee minutes)</p>	<p><input type="checkbox"/> Catchment area</p> <p><input type="checkbox"/> Number of households</p> <p><input type="checkbox"/> Groundwater monitoring adjacent to pilot sites</p>
Tonga	<p>22 Nitrogen pollution discharged to groundwater in Neiafu</p> <p>Rehabilitation of septic systems and sludge disposal systems will reduce nitrogen discharge at a household level by 25%</p>	<p><input type="checkbox"/> 20% reduction in nitrogen discharged to groundwater</p> <p>Equates to 80% Neiafu residents with access to septic pump-out (4,500 people)</p>	<p><input type="checkbox"/> Survey by Town Officers endorsed by Steering Committee (Steering Committee minutes)</p> <p><input type="checkbox"/> Audit on proportion of houses using the pump-out facilities by end of project</p>	<p><input type="checkbox"/> Island area</p> <p><input type="checkbox"/> Number of households in Neiafu</p> <p><input type="checkbox"/> Number of households on Vava'u</p>
Tuvalu	<p>22 Reduction in sewage pollution across Funafuti</p> <p>Composting toilets should reduce nitrogen pollution discharged to groundwater by over 90% in demonstration households</p>	<p><input type="checkbox"/> 5% reduction in sewage pollution over Funafuti</p>	<p><input type="checkbox"/> Study report endorsed by Steering Committee (Steering Committee minutes)</p>	<p><input type="checkbox"/> Island area</p> <p><input type="checkbox"/> Number of households</p>
Vanuatu	<p>22 Reduction in sewage pollution across Sarakata watershed</p> <p>Installation of composting toilets or other improved sanitation options, either directly through the project, or through associated works will cause a direct reduction in the nitrogen pollution into the surface waters</p>	<p><input type="checkbox"/> 40% reduction in sewage pollution in Sarakata watershed</p>	<p><input type="checkbox"/> Study report endorsed by Steering Committee (Steering Committee minutes)</p>	<p><input type="checkbox"/> Watershed area</p> <p><input type="checkbox"/> Number of households</p> <p><input type="checkbox"/> Survey of existing sanitation systems</p>

LOGFRAME TARGET 19

30% reduction in drinking water resources pollution discharge for 3 sites (including one country-scale)

Proposed Indicator(s)

23. Reduction in drinking water source pollution

The sources of pollution to drinking water are many and varied across the demonstration sites, including piggeries, septics, solid waste, agricultural chemicals, waste oil and hazardous medical waste. Against this background, assessing a 30% reduction in pollution discharge is considered virtually impossible. However, at the sites listed in the following table, significant pollution reduction measures are to be implemented that would in many cases result in significant reductions in pollution discharges. It is considered reasonable to assume that if these are implemented, they would result in reductions in pollution discharges typically greater than 30% - in most cases, significantly more than 30%.

Notably, for any of these sites where pathogens are identified as the primary pollution source of concern to drinking water (likely in RMI, Palau and Niue), the proposed strategies to manage piggeries and/or sewage pollution will certainly guarantee a 30% reduction in pollution (typically measured in orders of magnitude). At sites where pathogens are the primary drinking water risk, direct measurements of pathogen concentrations (*E. coli* would provide an adequate indicator) may be one option for demonstrating pollution reduction. Due to their relatively short survival rates in the environment, pathogens are one of the few forms of direct condition monitoring that may demonstrate positive changes within the project timeframes. However caution should be exercised interpreting results given the highly variable nature of microbiological sampling, the strong influence of external drivers that affect concentrations (such as rainfall) and the significant number of environmental sources (birds in particular) in surface water catchments.

Accordingly, it is proposed that the indicator be a reduction in drinking water source pollution, with targets based on site specific stressors. Measuring the success against this target could be achieved through:

- i. Achievement of the proposed activities – given that these activities will collectively provide the 30% reductions required
- ii. Independent review of the reductions in drinking water source pollution, either as a separate report, or as part of the development of a watershed management plan
- iii. Direct measurement of *E. coli* concentrations

Country Reporting

Scorecard: Complete	Target reduction in drinking water source pollution
Mostly Complete	2/3 of target reduction achieved
Partially Complete	Stress reduction activities completed and significant measurable reduction in drinking water source pollution
Mostly Incomplete	Strategy and funding in place, but groundworks not completed to deliver reduction in drinking water source pollution
Incomplete	No significant reduction in drinking water source pollution

Regional Reporting

Scorecard:	Complete	30% reduction for 3 sites (including one country-scale)
	Mostly Complete	30% reduction for 3 sites
	Partially Complete	30% reduction for 2 sites
	Mostly Incomplete	30% reduction for one site
	Incomplete	Significant reductions not achieved at any sites

Baselines will need to be collected early into all projects, particularly those identifying surveys or water quality monitoring as the primary means of demonstrating reduction.

Country	Indicator		Means of Verification	Baseline
FSM	<p>23 Reduction in pollution sources discharging into Nett Watershed</p> <p>Activities to address key pollution sources include improving piggery management, regulation development and a Payment for Ecosystem services (PES) system.</p> <p>Additionally, the source mapping will provide both a baseline and a lever for regulators and operators to improve practices.</p> <p>It may be possible to determine source reduction simply from the original baseline mapping and the subsequent works in the catchment to report on progress.</p> <p>Alternatively, the catchment management plan needs to clearly identify how initiatives will lead to this level</p>	<input type="checkbox"/> 30% reduction in sources discharging into Nett Watershed	<input type="checkbox"/> Report on progress endorsed by Steering Committee (Steering Committee minutes) <input type="checkbox"/> Nett Watershed Forest Reserve Management Plan endorsed by Minister/Cabinet	<input type="checkbox"/> Assessment of piggery waste generation from piggery <input type="checkbox"/> Survey of catchment pollution sources
Niue	<p>23 Reduction in drinking water resources pollution discharge to drinking water sources at a national scale</p> <p>Addressing the key risks identified in the project document removes most of the key risks to drinking water supplies; leaving only minor risks. As the nature of these risks varies, a direct 30% is not readily quantifiable; however, addressing risks from waste oil, hospital hazardous wastes, piggeries and agricultural chemicals as outlined in the logframe will almost entirely mitigate risks to drinking water sources. As such it is considered that it would have more than satisfied a 30% reduction criteria.</p>	<input type="checkbox"/> 30% reduction Achieved through mitigation of: <ul style="list-style-type: none"> - waste oil sources - hospital hazardous wastes - piggery waste - agricultural chemicals 	<input type="checkbox"/> Reports endorsed by Steering Committee (Steering Committee minutes)	<input type="checkbox"/> Uncontrolled waste oil disposal sites <input type="checkbox"/> Uncontrolled piggery waste sites <input type="checkbox"/> Survey of hospital waste practices <input type="checkbox"/> Groundwater quality assessment (agricultural chemicals and/or pathogens)
Palau	<p>23 Reduction in pollution sources discharging into Ngerikiil Watershed</p> <p>Activities to address key pollution sources include buffer zones, developing best management practices, managing stormwater drains and a Payment for Ecosystem services (PES) system.</p> <p>Additionally, the source mapping will provide both a baseline and a lever for regulators and operators to improve practices.</p> <p>It may be possible to determine source reduction simply from the original baseline mapping and the subsequent works in the catchment to report on progress.</p> <p>Alternatively, the catchment management plan needs to clearly identify how initiatives will lead to this level (or greater) of source reduction</p>	<input type="checkbox"/> 30% reduction in sources discharging into Ngerikiil	<input type="checkbox"/> Report on progress endorsed by Steering Committee (Steering Committee minutes) <input type="checkbox"/> Ngerikiil Catchment Water Management Plan endorsed by Minister/Cabinet	<input type="checkbox"/> Survey of catchment pollution sources <input type="checkbox"/> Potentially water quality monitoring for pathogens

Country	Indicator		Means of Verification	Baseline
RMI	<p>23 Reduction in pollution sources discharging into Laura groundwater</p> <p>Activities to address key pollution sources include managing piggery waste, managing septic tanks, installation of composting toilets and managing solid waste.</p> <p>Additionally, the source mapping will provide both a baseline and a lever for regulators and operators to improve practices. It may be possible to determine source reduction simply from the original baseline mapping and the subsequent works in the catchment to report on progress.</p> <p>Alternatively, the catchment management plan needs to clearly identify how initiatives will lead to this level (or greater) of source reduction</p>	<input type="checkbox"/> 30% reduction in sources discharging into Laura groundwater	<input type="checkbox"/> Report on progress endorsed by Steering Committee (Steering Committee minutes) <input type="checkbox"/> Sarakata Watershed Management Plan endorsed by Minister/Cabinet	<input type="checkbox"/> Laura groundwater catchment area <input type="checkbox"/> Number of households <input type="checkbox"/> Survey of catchment pollution sources <input type="checkbox"/> Potentially water quality monitoring for pathogens
Vanuatu	<p>23 Reduction in pollution across Sarakata watershed</p> <p>Activities to address key pollution sources include developing best management practices, managing stormwater drains and a Payment for Ecosystem services (PES) system.</p> <p>Additionally, the household survey will provide both a baseline and a lever for regulators and operators to improve practices. It may be possible to determine source reduction simply from the original baseline mapping and the subsequent works in the catchment to report on progress.</p> <p>Alternatively, the Sarakata Watershed Management Plan needs to clearly identify how initiatives will lead to this level (or greater) of source reduction</p>	<input type="checkbox"/> 30% reduction in sources discharging into Sarakata watershed	<input type="checkbox"/> Report on progress endorsed by Steering Committee (Steering Committee minutes) <input type="checkbox"/> Sarakata Watershed Management Plan endorsed by Minister/Cabinet	<input type="checkbox"/> Watershed area <input type="checkbox"/> Number of households <input type="checkbox"/> Survey of existing sanitation systems

LOGFRAME TARGET 20
A Catchment Council established in 2 SIDS

Proposed Indicator(s)

24. Catchment Council established

Relies on endorsement at the relevant level, such as Ministerial decree or similar. A council without this level of endorsement is unlikely to have sufficient authority to guide water governance. Similarly, a delegated financial allocation is required to enable the Council to function.

The definition of 'Council' may vary significantly, but needs to reflect governance at the catchment level. Accordingly, it would be necessary for there to be local community, government and commerce representation on the Council for this criterion to be satisfied.

Options for the financial allocation include:

- i. Discrete budget line
- ii. Levy collection and allocation

Note that funding from government agency budget funding, without a discrete budget line is considered less stable than a directly funded council as it relies on ongoing agency priorities, rather than a transparent budget allocation.

Country Reporting

Scorecard:	Complete	Catchment Council established with financial allocation (such as budget line or levy)
	Mostly Complete	Catchment Council established, funded from government agency budget
	Partially Complete	Catchment Council established with formal delegation but without financial allocation
	Mostly Incomplete	Catchment Council operating, but without formal Ministerial or legislative delegation
	Incomplete	No Catchment Council in place

Regional Reporting

Scorecard:	Complete	Catchment Councils established in 2 countries with financial allocation (such as budget line or levy)
	Mostly Complete	Catchment Councils established in 2 countries with financial allocation in one (such as budget line or levy)
	Partially Complete	Catchment Councils established in 2 countries without financial allocation or established in one country with financial allocation
	Mostly Incomplete	Catchment Council established in one country without financial allocation
	Incomplete	Catchment Council not established

No baseline is required.

Country	Indicator	Target	Means of Verification	Baseline
Fiji	24 Nadi Basin Catchment Committee Established	<input type="checkbox"/> Committee Established <input type="checkbox"/> Budget allocated	<input type="checkbox"/> Endorsement by Minister or legislation passed or similar <input type="checkbox"/> National Budget	<input type="checkbox"/> None required
FSM	24 Nett Catchment Committee Established	<input type="checkbox"/> Committee Established <input type="checkbox"/> Budget allocated	<input type="checkbox"/> Endorsement by Minister or legislation passed or similar <input type="checkbox"/> National Budget	<input type="checkbox"/> None required
Palau	24 Ngerikiil Community Catchment Committee Established	<input type="checkbox"/> Committee Established <input type="checkbox"/> Budget allocated	<input type="checkbox"/> Endorsement by Minister or legislation passed or similar <input type="checkbox"/> National Budget	<input type="checkbox"/> None required
RMI	24 Laura Lens Laura Integrated Water and Land Management Advisory Committee	<input type="checkbox"/> Committee Established <input type="checkbox"/> Budget allocated	<input type="checkbox"/> Endorsement by Minister or legislation passed or similar <input type="checkbox"/> National Budget	<input type="checkbox"/> None required
Vanuatu	24 Sanma Water Advisory Committee Established	<input type="checkbox"/> Committee Established <input type="checkbox"/> Budget allocated	<input type="checkbox"/> Endorsement by Minister or legislation passed or similar <input type="checkbox"/> National Budget	<input type="checkbox"/> None required

LOGFRAME TARGET 21

50% increase in community engagement with National Government in 3 SIDS

Proposed Target:

50% increase in community engagement with National Government on water issues in 3 SIDS

Proposed Indicator(s)

25. Increase in community engagement with National Government on water issues

Community engagement occurs across multiple levels, from awareness raising through to direct involvement in decision-making. In order for this indicator to be meaningful, it needs to relate to engagement that influences governance. The opportunities for the community to engage directly with national government include national committees, national forums and representation on governance committees.

Measuring achievement against this indicator can be relatively straightforward, with the number of community representatives on formal national committees and forums, governance bodies with direct engagement of national government and community representatives and advisory bodies that formally report to Ministers or Cabinet engagement with national government on water issues limited.

Country Reporting

Scorecard:	Complete	Target increase in community engagement
	Mostly Complete	2/3 of target increase achieved
	Partially Complete	1/2 of target increase achieved
	Mostly Incomplete	Measurable increase in community engagement
	Incomplete	No significant increase in community engagement

Regional Reporting

Scorecard:	Complete	50% increase in 3 SIDS
	Mostly Complete	30% increase in 3 SIDS
	Partially Complete	2% increase in 2 SIDS
	Mostly Incomplete	25% increase in one SIDS
	Incomplete	No significant increase

Baseline will need to identify existing national committees and forums, governance bodies with direct engagement of national government and community representatives and advisory bodies that formally report to Ministers or Cabinet. The need to establish baselines early is critical.

Country	Indicator	Target	Means of Verification	Baseline
Nauru	25 Community engagement with National Government	<input type="checkbox"/> 50% increase	<input type="checkbox"/> Review of formal national committees and forums endorsed by Project Steering Committee	<input type="checkbox"/> Community representative membership or formal participation in formal national committees or forums prior to project commencement
RMI	25 Community engagement with National Government	<input type="checkbox"/> 50% increase	<input type="checkbox"/> Review of formal national committees and forums endorsed by Project Steering Committee	<input type="checkbox"/> Community representative membership or formal participation in formal national committees or forums prior to project commencement
Tuvalu	25 Community engagement with National Government	<input type="checkbox"/> 50% increase	<input type="checkbox"/> Review of formal national committees and forums endorsed by Project Steering Committee	<input type="checkbox"/> Community representative membership or formal participation in formal national committees or forums prior to project commencement

LOGFRAME TARGET 22

National effluent standards reached for wastewater treatment at 3 sites

Proposed Indicator(s)

26. National effluent standards reached for wastewater treatment

There are generally four ways in which national effluent standards are applied, namely by:

- i. Setting numeric criteria for discharge
- ii. Setting treatment criteria based on processes
- iii. Setting discharge criteria through permits/licenses, typically with conditions relating to treatment, numeric criteria, location and/or timing
- iv. A combination of any of the above

Given the potentially broad range of effluent standards and permit conditions, there is no single fit to meeting criteria, but rather the need to review performance against the relevant criteria. This can be done by the relevant regulatory body, or where appropriate, through an independent auditor.

Country Reporting

Scorecard:	Complete	National effluent standards reached for wastewater treatment
	Mostly Complete	National effluent standards substantively met wastewater treatment with minor (non-significant) breaches
	Partially Complete	National effluent standards substantively met but with restrictive conditions
	Mostly Incomplete	National standards defined; works undertaken, but unable to meet standards
	Incomplete	No national standards defined

Regional Reporting

Scorecard:	Complete	National effluent standards reached at 3 sites
	Partially Complete	National effluent standards reached at 2 sites
	Mostly Incomplete	National effluent standards reached at 1 site
	Incomplete	National effluent standards not reached at any site

No Baseline is required; however national effluent standards need to be clearly identified.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	26 Wastewater discharge from demonstration sites meet national effluent standards <i>Discharge meets Public Health (Sewage) Regulations 2008 or revised regulations</i>	<input type="checkbox"/> Regulations met	<input type="checkbox"/> Audit of demonstration system performance against national effluent standards endorsed by Steering Committee	<input type="checkbox"/> None required
FSM	26 Wastewater discharge from demonstration sites meet national effluent standards <i>Discharge meets national effluent standards</i>	<input type="checkbox"/> Regulations met	<input type="checkbox"/> Audit of demonstration system performance against national effluent standards endorsed by Steering Committee	<input type="checkbox"/> None required
Nauru	26 Wastewater discharge from demonstration sites meet national effluent standards <i>Need to develop national effluent standards</i>	<input type="checkbox"/> Regulations met	<input type="checkbox"/> Audit of demonstration system performance against national effluent standards endorsed by Steering Committee	<input type="checkbox"/> None required
Niue	26 Wastewater discharge from demonstration sites meet national effluent standards <i>Need to develop national effluent standards</i>	<input type="checkbox"/> Regulations met	<input type="checkbox"/> Audit of demonstration system performance against national effluent standards endorsed by Steering Committee	<input type="checkbox"/> None required
RMI	26 Wastewater discharge from demonstration sites meet national effluent standards <i>Discharge meets RMIEPA Toilet Facilities and Sewage Disposal Regulations 1990 or revised regulations</i>	<input type="checkbox"/> Regulations met	<input type="checkbox"/> Audit of demonstration system performance against national effluent standards endorsed by Steering Committee	<input type="checkbox"/> None required

LOGFRAME TARGET 23

20% increase in water storage facilities at 1 demo site

Proposed Indicator(s)

27. Water supply storage

Relies on installation of additional storage in Niue.

Country Reporting

Scorecard:	Complete	Target increase in water supply storage
	Mostly Complete	2/3 of target increase achieved
	Partially Complete	1/2 of target increase achieved
	Mostly Incomplete	Measurable increase in water storage facility
	Incomplete	No significant increase in water storage facility

Regional Reporting

Scorecard:	Complete	20% increase in water storage facilities at 1 demo site
	Partially Complete	Significant increase in water storage facilities at 1 demo site
	Incomplete	No increase in water storage

Baseline of existing storage at the project commencement will required.

Country	Indicator	Target	Means of Verification	Baseline
Niue	27 Water supply storage New Storage Tank at Fou, Alofi North	<input type="checkbox"/> 20% increase	<input type="checkbox"/> Commissioning report endorsed by Steering Committee	<input type="checkbox"/> Alofi North water storage capacity

LOGFRAME TARGET 24

**Draft regional Indicator Framework developed for consultation by June 2010
and countries fully utilizing Indicator Framework by December 2011**

Proposed Target:

*Draft regional Indicator framework developed and fully utilizing Indicator Framework
by December 2012*

The change in timeframe reflects the delays to start-up in many projects, with many projects not recruiting project managers until the 3rd and 4th quarters of Year 1; followed by changes to logframes to reflect the changed environment during the lag between project scoping and implementation.

The focus solely on the implementation of the framework (rather than the timing of the draft for consultation) reflects a focus on getting the framework implemented and mainstreamed into countries.

Proposed Indicator(s)

28. Regional indicator framework endorsed by Regional Steering Committee and national indicator frameworks endorsed by relevant Cabinets or Ministers

Endorsement of the regional indicator framework and national indicator frameworks is fairly straightforward to assess. Whilst it is preferable that the framework is endorsed as a single approach, due to the combination of reporting strategies that may be adopted (such as Demographic Health Survey, Census and National Sustainable Development Plans), it may be practical at a national level for the components to be endorsed separately.

Country Reporting

Scorecard: Complete	National indicator framework endorsed by Minister/Cabinet and reporting mechanisms identified and funded
Mostly Complete	National indicator framework endorsed by Minister/Cabinet; responsible agencies identified, but reporting unfunded
Partially Complete	National indicator framework endorsed by APEX body
Mostly Incomplete	National indicator framework under development, including consultation
Incomplete	No Catchment Council in place

Regional Reporting

Scorecard: Complete	Indicator framework endorsed by Steering Committee and national indicator framework endorsed in 13 countries
Mostly Complete	Indicator framework endorsed by Steering Committee and national indicator framework endorsed in 9 countries

<i>Partially Complete</i>	Indicator framework endorsed by Steering Committee and national indicator framework endorsed in 7 countries
<i>Mostly Incomplete</i>	Indicator framework endorsed by Steering Committee and national indicator framework endorsed in 3 countries
<i>Incomplete</i>	Regional indicator framework not endorsed

No baseline is required.

Country	Indicator	Target	Means of Verification	Baseline
Regionally	28 Regional Indicator Framework implemented	<input type="checkbox"/> Endorsed by Regional Steering Committee	<input type="checkbox"/> RSC Minutes	<input type="checkbox"/> None required
Cook Islands	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Fiji	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
FSM	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Nauru	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Niue	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Palau	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
PNG	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
RMI	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Samoa	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Solomon Islands	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Tonga	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Tuvalu	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required
Vanuatu	28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	<input type="checkbox"/> Endorsement by Cabinet (Cabinet Minutes)	<input type="checkbox"/> None required

LOGFRAME TARGET 25

Stakeholder consultation and approval of project design and PM&E plan for each national demonstration project by August 2009, including separate consultations with women

Proposed Indicator(s)

29. Project design and PM&E plan endorsed by Project Steering Committee

Relatively straightforward to confirm through Project Steering Committee (PSC) minutes, although requires stakeholder consultation and, in particular, consultations with women. Options for demonstrating the consideration of stakeholder consultation include:

- i. Consultation report outlining consultation process and participants, including separate consultations with women
- ii. Identification of stakeholder consultations as part of PM&E plan, including separate consultations with women

Ideally, the issues raised as part of the consultation process and the response to it should be identified in the consultation report.

Country Reporting

Scorecard: Complete	Project design and PM&E plan endorsed by PSC with consultation clearly identified
Mostly Complete	Project design and PM&E plan endorsed by PSC with consultation undertaken, but not clearly identified
Partially Complete	Project design and PM&E plan endorsed by PSC
Mostly Incomplete	Project design and PM&E plan under development, including consultation
Incomplete	No progress on project design and PM&E plan

Regional Reporting

Scorecard: Complete	Project design and PM&E plan endorsed with consultation clearly identified in 13 countries
Mostly Complete	Project design and PM&E plan endorsed with consultation clearly identified in 9 countries
Partially Complete	Project design and PM&E plan endorsed in 7 countries
Mostly Incomplete	Project design and PM&E plan endorsed in up to 4 countries
Incomplete	No project designs or PM&E plans

No baseline required.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Fiji	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
FSM	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Nauru	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Niue	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Palau	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
PNG	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
RMI	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Samoa	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required

Country	Indicator	Target	Means of Verification	Baseline
Solomon Islands	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Tonga	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Tuvalu	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required
Vanuatu	29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	<input type="checkbox"/> Endorsed by Project Steering Committee	<input type="checkbox"/> None required

LOGFRAME TARGET 26

National promotion and adoption of PM&E approaches by national water APEX body by end 2011 using Most Significant Change (MSC) and reflection and learning techniques

Proposed Target:

National promotion and adoption of PM&E approaches by national water APEX body by July 2012 using Most Significant Change (MSC) and reflection and learning techniques

The timeframes between the original planning and the project implementation has meant that projects needed to be re-scoped, delaying this process. It is suggested that the RTAG consider revising the date for delivery.

Proposed Indicator(s)

30. National adoption of PM&E approaches implemented

It is implied within this target that MSC and reflection and learning techniques will form a central role in the national PM&E approaches.

The achievement of this target could be demonstrated by:

- i. Incorporation of PM&E, MSC and reflection and learning into national monitoring programmes for national indicators*
- ii. Running national PM&E workshops to facilitate PM&E uptake*
- iii. Incorporating MSC and reflection and learning techniques into periodic APEX reviews*

Country Reporting

Scorecard:	Complete	PM&E approach implemented by APEX body
	Mostly Complete	PM&E approach endorsed by APEX body with budget allocation
	Partially Complete	PM&E approach endorsed by APEX body
	Mostly Incomplete	PM&E approach under development, including consultation
	Incomplete	No Catchment Council in place

Regional Reporting

Scorecard:	Complete	PM&E approach implemented by APEX body in 13 countries
	Mostly Complete	PM&E approach implemented by APEX body in 9 countries
	Partially Complete	PM&E approach implemented by APEX body in 7 countries
	Mostly Incomplete	PM&E approach implemented by APEX body in up to 3 countries
	Incomplete	PM&E approach not implemented by any APEX body

No baseline required.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Fiji	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
FSM	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Nauru	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Niue	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Palau	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
PNG	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
RMI	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required

Country	Indicator	Target	Means of Verification	Baseline
	techniques			
Samoa	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Solomon Islands	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Tonga	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Tuvalu	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required
Vanuatu	30 National adoption of PM&E approaches implemented Incorporating MSC and reflection and learning techniques	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by APEX body (APEX body minutes)	<input type="checkbox"/> None required

LOGFRAME TARGET 27

Relevant national country staff trained in monitoring and PM&E approaches by end 2010 based on needs assessment

Proposed Target:

Relevant national country staff trained in monitoring and PM&E approaches by end 2011 based on needs assessment

The timeframes between the original planning and the project implementation has meant that projects needed to be re-scoped, delaying this process. It is suggested that the RTAG consider revising the date for delivery. This could be achieved by planning and incorporating training into RSC 3, with targeted follow-up.

Proposed Indicator(s)

31. National staff trained in monitoring and PM&E

Relies on undertaking a needs assessment for national staff, either at a regional level or in each country. Once this has been undertaken, the training needs should be clearly identified, and assessment of the achievement of this target relatively straightforward. The training could be undertaken at a regional level, sub-regionally or in-country.

Country Reporting

Scorecard: Complete	National staff trained in monitoring and PM&E based on needs assessment
Mostly Complete	Monitoring and PM&E needs assessment completed and training for national staff partially complete
Partially Complete	Monitoring and PM&E needs assessment completed and training planned for national staff
Mostly Incomplete	Monitoring and PM&E needs assessment completed
Incomplete	No Catchment Council in place

Regional Reporting

Scorecard: Complete	National staff trained in monitoring and PM&E based on needs assessment in 13 countries
Mostly Complete	National staff trained in monitoring and PM&E based on needs assessment in 9 countries
Partially Complete	National staff trained in monitoring and PM&E based on needs assessment in 7 countries
Mostly Incomplete	National staff trained in monitoring and PM&E based on needs assessment in up to 3 countries
Incomplete	Training needs not assessed

No baseline required.

Country	Indicator	Target	Means of Verification	Baseline
Cook Islands	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Fiji	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
FSM	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Nauru	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Niue	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Palau	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
PNG	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required

Country	Indicator	Target	Means of Verification	Baseline
	national monitoring needs			
RMI	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Samoa	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Solomon Islands	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Tonga	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Tuvalu	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required
Vanuatu	31 Country staff trained in monitoring and PM&E Based on a needs assessment. Relies on undertaking a assessment against national monitoring needs	<input type="checkbox"/> Training assessment report	<input type="checkbox"/> Report endorsed by Steering Committee	<input type="checkbox"/> None required

LOGFRAME TARGET 31

Strategic IWRM communication plan framework for individual national development in place by end 2009 (based on Regional Communication Strategy in place by June 2009), with national development and implementation by end 2010

Proposed Target:

Strategic IWRM communication plan framework for individual national development in place by end 2011 (based on Regional Communication Strategy in place by July 2011), with national development implementation by July 2012

The timeframes between the original planning and the project implementation has meant that projects needed to be re-scoped, delaying this process. It is suggested that the RTAG consider revising the date for delivery to reflect initial delays and the change in modality adopted to deliver the regional communication strategy. Rather than the national communication strategies being developed based on the regional strategy, national communication strategies are being developed on individual country needs, which are then distilled into a regional communication strategy.

Proposed Indicator(s)

32. Regional Communication strategy in place by July 2011

33. National Communication strategies implemented by July 2012

Implementation of the National Communication strategies involves implementing actions in the strategy. Options for demonstrating that the strategy has been implemented include a

- i. Periodic review or commissioned review of the strategy, endorsed by APEX body, indicating that the strategy is being implemented
- ii. Allocation of a budget line for implementation of the strategy

In most countries it is anticipated that the approach adopted will be a review; however the allocation of budget for implementation provides confidence that the strategy would be implemented.

Country Reporting

Scorecard: Complete	Strategic IWRM communication plan implemented
Mostly Complete	Strategic IWRM communication plan endorsed by Minister with budget or funding allocation
Partially Complete	Strategic IWRM communication plan endorsed by APEX body
Mostly Incomplete	Draft Strategic IWRM communication plan
Incomplete	No Catchment Council in place

Regional Reporting

Scorecard: Complete	Regional Communication strategy in place and 13 national communication strategies implemented
Mostly Complete	Regional Communication strategy in place and 9 national communication strategies implemented
Partially Complete	Regional Communication strategy in place and 7 national communication strategies implemented
Mostly Incomplete	Up to 4 national communication strategies in place
Incomplete	No national communication strategies in place

No baseline required

Country	Indicator	Target	Means of Verification	Baseline
Regional	32 Regional IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2011	<input type="checkbox"/> Endorsed by Regional Steering Committee	<input type="checkbox"/> None required
Cook Islands	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Fiji	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
FSM	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Nauru	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Niue	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Palau	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
PNG	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
RMI	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Samoa	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Solomon Islands	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Tonga	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Tuvalu	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required
Vanuatu	33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	<input type="checkbox"/> Endorsement by Minister	<input type="checkbox"/> None required

LOGFRAME TARGET 32

Multi-sectoral participation in national APEX bodies by end of 2009 with at least 33% female membership (including private and education sector membership and national finance and economic planning units)

Proposed Target:

Multi-sectoral participation in national APEX bodies by end of June 2011 with at least 33% female membership (including private and education sector membership and national finance and economic planning units)

Consideration needs to be given to the importance of achieving the 33% female membership against that of getting high level engagement from countries. With membership ideally targeted at Permanent Secretary/ Secretary level and the need to engage key agencies, there may not be females in senior positions. Requiring females to be members of the committee may then be perceived as devaluing the participation of the agencies required to nominate a female representative, who would then be potentially be at a lower level than representatives of other agencies. This is possibly reflected in only Niue and RMI reporting current APEX female membership at or above 33%.

The alternative option, that representatives from the community and/or commerce be restricted to females is not a realistic option. Accordingly, this component of the target is viewed as aspirational.

The timeframes between the original planning and the project implementation has meant that projects needed to be re-scoped, delaying this process. It is suggested that the RTAG consider revising the date for delivery to reflect initial delays and the change in modality adopted to deliver the national APEX bodies. For example, this is being accomplished in Palau through a process initiated with sub-regional summits, which have taken considerable time to initiate.

Proposed Indicator(s)

34. Multi-sectoral APEX bodies established

Relies on engaging the key sectors to be engaged in water governance. These would typically include utilities, education, finance, economic planning, environment, health, infrastructure, fisheries and agriculture, as well as commerce and civil society.

Country Reporting

Scorecard:	Complete	Multi-sectoral APEX body established
	Mostly Complete	Strategic IWRM communication plan endorsed by Minister with budget or funding allocation
	Partially Complete	Strategic IWRM communication plan endorsed by APEX body
	Mostly Incomplete	Draft Strategic IWRM communication plan
	Incomplete	No APEX body established

Regional Reporting

Scorecard:	Complete	Multi-sectoral APEX bodies established in 13 countries
	Mostly Complete	Multi-sectoral APEX bodies established in 9 countries
	Partially Complete	Multi-sectoral APEX bodies established in 7 countries
	Mostly Incomplete	Multi-sectoral APEX bodies established in up to 4 countries
	Incomplete	No APEX bodies established

No baseline required.

Country	Indicator		Means of Verification	Baseline
Cook Islands	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Fiji	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
FSM	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Nauru	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Niue	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Palau	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
PNG	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
RMI	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Samoa	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Solomon Islands	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Tonga	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Tuvalu	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required
Vanuatu	34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	<input type="checkbox"/> Endorsement by Minister or Cabinet	<input type="checkbox"/> None required

Samoa Project Regional Reporting Indicators

Indicator	Target	Baseline	Progress	Basis for Progress Assessment
1 National Strategy in Place	<input type="checkbox"/> Strategy in place by mid 2012	None required	Mostly Completed	Joint Water Sector Coordinating Unit (JWSSC) has been set up by GoS to coordinate the Sector Wide Approach program (SWAp) in Samoa and the Secretariat of JWSSC is Water Sector Coordinating Unit (WSCU) formerly Water Sector Supporting Programme (WaSSP) became a Division of the MNRE in 2010
2 Discrete Budget Line for IWRM	<input type="checkbox"/> Budget line in place by mid-2013	None required	Partly Completed	Many of the IWRM concepts have been allocated in Water Resource Division annual budgets. WMP, WSP, Awareness materials.
3 National budget allocated to IWRM and WUE	<input type="checkbox"/> 20% increase in Budget	<input type="checkbox"/> Statement of 2009 budget allocated to IWRM and WUE	Mostly Completed	WSCU budget allocation
4 Best IWRM and WUE approaches defined	<input type="checkbox"/> Approach defined	None required	Mostly Completed	Best practices have been incorporated into Water Sector Programmes. WWD, Biodiversity Day, Environment Week. Water Quality Committee, Water Technical Committee, etc
5 Best approaches to IWRM and WUE mainstreamed into national and regional planning frameworks	<input type="checkbox"/> National Strategy incorporates defined approach	None required	Completed	WSCU coordinating all the Water sector plans and budget

Indicator	Target	Baseline	Progress	Basis for Progress Assessment
6 Increase in land protected and/or rehabilitated over the catchment	<input type="checkbox"/> 2,000 ha	<input type="checkbox"/> Catchment area – 11,500 ha <input type="checkbox"/> Reserves declared by Cabinet 1960 – 200 ha Lake Lanoto'o Reserve, 89ha Mt Vaea Reserve. <input type="checkbox"/> Catchment forestry and native vegetation coverage as at 1 January 2009 or as close as practical in time – 40% secondary forest 4,600 ha, 10% native forest 1,150, 25% agriculture 2,875.	Partially Completed	RAMSAR convention Lake Lanotooo Reserve 2009 – 400ha, Vailima Natural Reserve 183ha Management Plan Finalise May 2011, RTT Malololelei Reserve proposal to Cabinet 500 May 2010
8 Reduction in water leakage loss in Apia	<input type="checkbox"/> 30% reduction in water leakage from system supplying 55,000 people	<input type="checkbox"/> 16,000 cum <input type="checkbox"/> 61 % <input type="checkbox"/> 55,000 people (2006 census) <input type="checkbox"/> 60m	Mostly Incomplete	Strategy and funding in place and leak detection undertaken and implementation phase started.
10 Population with access to improved sanitation	<input type="checkbox"/> 30% increase in Apia residents with access to improved sanitation (11,000 people)	<input type="checkbox"/> 8,500 households <input type="checkbox"/> Population Apia Catchment 55,000 <input type="checkbox"/> Proposed WWTP for Apia CBD <input type="checkbox"/> Proposed Septic construction regulation and de-sludging landfill	Mostly Completed	80 properties + National Hospital & Fugalei Market serviced by WWTP SCADA system proposed for WWTP pumps Water Safety Plan for Fuluasou finalised New Septic tank design construction regulated through PUMA Septic tank de-sludging landfill at Tafaigata

Indicator	Target	Baseline	Progress	Basis for Progress Assessment
12 Legislation for Water Resource Management	<input type="checkbox"/> Legislation enacted by Parliament by end of 2012	<input type="checkbox"/> Water Resource Management Act 2008 <input type="checkbox"/> National Water Drinking Standard 2009 <input type="checkbox"/> National Water Resource Management Policy review from 2001	Mostly Completed	Water Abstraction Licensing Policy enacted Water Safety Plan for Fuluasou finalised Reviewed Watershed Management Plan for LOA finalised National Water Service Policy submitted to cabinet
14 Lessons learned incorporated into other project(s) and/or Regulations	<input type="checkbox"/> Replication demonstrated by end of project	None required	Partially Completed	Replication strategy developed such as taking of land issues and challenges, reviewed WMP and WSP.
15 Replication strategy developed and implemented to mainstream lessons learned	<input type="checkbox"/> Replication demonstrated by end of project	<input type="checkbox"/> WaSSP Water Sector Support Program 2004 <input type="checkbox"/> Water For Life – Strategy for Development of Samoa document 2008-2012	Mostly Completed	SWAp – Sector Wide Approach implementation with the engagement of WSCU as a secretariat for the JWSSC to coordinate the Water Sector. IWRM personnel involved in Water Quality and Technical discussion matters.
16 National IWRM indicator framework embedded in formal national reporting	<input type="checkbox"/>	None required	Completed	IWRM indicators are part of budget and report review for the WSCU

Indicator	Target	Baseline	Progress	Basis for Progress Assessment
17 National staff across institutions with IWRM knowledge and experience	<input type="checkbox"/> Increase	<input type="checkbox"/> 2 personnel involved with IWRM regional meetings <input type="checkbox"/> No staff IWRM training and experience records <input type="checkbox"/> WRD personnel Training surveys <input checked="" type="checkbox"/> 0 Review of IWRM training and job requirements at project commencement	Partially Completed	95% stakeholders attend IWRM consultation 3 personnel undertaking IWRM Post Graduate course More than 30 participants in the IWRM Super Rugby Tipping competition Winner of open and team category of 2010 Super Rugby tipping comp
18 Proportion of community engaged in water related issues	<input type="checkbox"/> 30% increases in attendance at awareness raising activities <input type="checkbox"/> 30% increase in active engagement activities	<input checked="" type="checkbox"/> Attendance at awareness raising activities and at activities with active engagement <input type="checkbox"/> WWD 2009 – 50 participants	Mostly Completed	WWD 2010 – 300 participants, WRD organising WWD 2011 – 200 invited, 400 participants, Joint Water Sector organising committee. LOA community consultation – 1 st consultation 2010 50 participants, 2 nd consultation 2011 150 participants
19 Sectoral engagement in formal multilateral communication on water issues	<input type="checkbox"/> Increased engagement	<input type="checkbox"/> SWA represents the voice of the water in formal communication	Complete	SWAp – Sector Wide Approach with JWSC involve in any National communication.
20 Apia Water Safety Plan (urban)	<input type="checkbox"/> Plan implemented	None required	Mostly Completed	Fuluasou WSP finalised waiting to be processed through to government WSP TA finished first stage workshop 2010

Indicator	Target	Baseline	Progress	Basis for Progress Assessment
28 National indicator framework implemented	<input type="checkbox"/> Indicators incorporated into national reporting	None required	Partially Completed	National Indicator framework incorporated in APEX body and included in WSAp planing
29 Project design and PM&E plan implemented	<input type="checkbox"/> Project and PM&E plan implemented by August 2011 <input type="checkbox"/> Consultation report	None required	Mostly incomplete	PM & E planning under development
30 National adoption of PM&E approaches implemented	<input type="checkbox"/> Implemented by July 2012	None required	Mostly incomplete	Not started
31 Country staff trained in monitoring and PM&E	<input type="checkbox"/> Training assessment report	None required	Partially incomplete	Need training and assessment
33 National IWRM communication plan framework implemented	<input type="checkbox"/> Implemented by July 2012	None required	Mostly incomplete	Need a proper communication plan framework, non existence
34 Multi-sectoral APEX body in place	<input type="checkbox"/> Implemented by July 2010	None required	Completed	Samoa Water Sector Wide Approach completed with appointment of WSCU as secretariat to JWSSC in 2010.