

Annual Performance Report (APR)

Reference Number (FP037): Integrated Flood Management to Enhance Climate Resilience of the Vaisigano Catchment in Samoa

UNDP

*Annual Reporting Period Covered in this Report:
(From 01-01-2018 to 31-12-2018)*

Sections in this report:

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SUBMITTED BY	
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<i>Please indicate if this report has been shared with the relevant NDA(s) for this Funded Activity (Yes/No)</i>	<i>22 February 2019</i> Date of submission to NDA

SECTION 1: GENERAL INFORMATION

This section provides general information on the funded activity.

1. Funded Activity Title:	<i>Integrated Flood Management to Enhance Climate Resilience of the Vaisigano Catchment in Samoa</i>
2. Funding Proposal Number:	<i>(FP037)</i>
3. Date of Board approval - Board Meeting Number:	12/14/2016 <i>B.15</i>
4. Accredited Entity:	<i>UNDP</i>
5. Focal Point of the Accredited Entity for this Project:	<i>Mr. Reis Lopez Rello</i> Email: reis.lopez.rello@undp.org Telephone <i>+66 2 304 9100 ext.5286</i>
6. Executing Entity(ies):	<i>Ministry of Finance</i>
7. Implementation Period:	From: 7/11/2017 To: 7/11/2023
8. Current year of Implementation:	<i>year 2</i>
9. Date of Submission of the Report:	3/1/20193/1/2019
10. Annual Reporting period covered in this report:	From: 1/1/2018 To: 12/31/2018
11. Total Project Budget¹:	<i>65,718,000.00</i>
12. Total amount of GCF Proceeds Approved:	<i>57,718,000.00</i>
13. Total amount of GCF Proceeds disbursed (cumulative) to the Accredited Entity:	<i>12,143,915.00</i>

SECTION 2: IMPLEMENTATION PROGRESS

¹ Total VCP budget including co-financing as reflected in the relevant Funded Activity Agreement.

2.1 OVERALL (SUMMARY) PROJECT PROGRESS (*less than one (1) page*²).

Key achievements and progress during the reporting period include:

- PMU fully functioning and operational with capacity of 14 staff.
- Feasibility review of the interdependence of flood mitigation options for the Vaisigano River Catchment (VRC) is 85 percent completed with two remaining deliverables: the Options Assessment - Issue Recommendations for Integrated Flood Mitigation Report and Final Consultancy Report to be completed in Quarter 1, 2019.
- Commenced the feasibility study for flood proofing of the Central Cross Island Road (CCIR) and contract awarded to successful contractor in December 2018; Completed Scoping study recommended specification for the VCP Early Warning System (EWS) and Emergency Siren Network (ESN). Integration of the VCP EWS with the World Bank (WB) funded National Multi-hazard EWS (NMHEWS) study aimed to finalise the specifications for the sirens, river and rain water gauges early 2019.
- Completed construction of section of Segment 2 river wall and removal of temporary access way used during construction.
- Completed construction of drainage works for the Apia Waterfront Project (ApWP) in the Apia Urban Area (AUA).
- Contract for engineering and design supervision services for Lelata Bridge awarded and began with geotechnical investigations late 2018;
- Extension of 80 meters flood walls upstream and downstream from Leone bridge.
- Finalised Operational Manual (OM) for implementation of Activity 2.2 work plan. Technical Advisory Group (TAG) for Activity 2.2 established and operational. Implementation of Activity 2.2 begun with implementation of community stakeholder consultations and data collection for baseline, monitoring and evaluation of Activity 2.2 impact and sustainability. Contract underway for feasibility study for Payment for Ecosystem Services (PES) and consultant submitted first deliverable: the Desk Review Report. Executed and operationalized separate Memorandum of Understanding (MOU) between the Ministry of Natural Resources and Environment (MNRE) and Small Business Enterprise Centre (SBEC) and Ministry of Commerce, Labour Industry and Labour (ILO) respectively to facilitate coordination and implementation of Civil Society Support Programme (CSSP) and SBEC approved WPB focusing on implementation of the Ecosystem based Adaptation Enterprise Development (EbAED) initiatives. Completed SBEC HACT assessment. Finalised agreed 2018-2019 WPB with CSSP and SBEC. Community consultations undertaken by the MNRE Disaster Management Office (DMO), Ministry of Health (MOH), Land Transport Authority (LTA) and Ministry of Works, Transport and Infrastructure (MWTI) respectively raised community awareness of the ESN and the sirens to be installed, development of simplified handbooks and translation of the National Building Code (NBC) into Samoan. These consultations were a success as they the objectives of the programmes were met as well as being productive and useful in improving the understanding and knowledge of the communities on the EbAED and Cash for Work (CfW) Programmes.
- Initiated procurement for consulting services for translation of NBC and development of simplified handbooks for use by the building industry.
- Completed 90 percent of procurement action to review and update the existing Stormwater Master Plan to include management of urban storm water, consolidate in a masterplan for AUA including detailed designs for 9 hazard areas identified.

Delays

- Collaboration with other similar development interventions to avoid overlap and ensure synergies and greater efficiency has resulted in some delays in implementation of activities. Delays encountered in working with the WB and Asian Development Bank (ADB) on disaster management and the multi-purpose dam (flood buffering).
- Initial Terms of Reference (ToR) in the Funding Proposal (FP) for some feasibility studies were outdated and their reviews resulted in some procurement actions taking longer than initially planned and expected at the design phase.
- Recruitment and contracting of VCP PMU staff has taken longer than anticipated as a result of a small pool of candidates.

Challenges

- Further strengthening around GCF Operational Policies and Requirements to facilitate Multiyear Work Planning (MYWP), Annual Work Planning and Budgeting (AWPB), Receipt of Disbursements, Monitoring and Reporting and Accountability requirements
- Revision of ToRs and procurement processes in the initial set up of VCP.
- Navigating through and ensuring compliance with the GCF, GoS and UNDP Operational Policies and Procedures has resulted in staff going through and continuing a steep learning curve;
- Reassuring community engagement as we move forward with implementation
- Reporting obligations and requirements following three different financial and reporting years (GoS, UNDP and GCF).
- Timely access to full budget allocation as per FAA (including Contingency)

2.2 Performance against the GCF Investment Criteria (summary) (max two (2) pages).

² Please remove text below to fit report to one page. Additional reports can be provided as other attachment to the APR.

GCF resources are being used to implement a combination of integrated watershed and flood management works including both hard and soft measures. This includes upgrading river works to cater to increased water flows during flood events (considering the likelihood of the increased frequency of extreme events), ensuring that infrastructure works (home dwellings, government and private sector buildings) are made more secure and provide adequate shelter in case of floods and their aftermaths. Additionally, the VCP will ensure that when floodwaters occur, the excess waters are channelled away through an effective, efficient, and fit-for-purpose drainage system. GCF resources will consequently play a critical role in assisting the urban population and economy to effectively manage the inevitable increased intensity and frequency of flooding.

This flood protection and watershed management will provide benefits to at least 26,000 people living within the Apia Urban Area. Direct benefits from these interventions include: i) reduced risk of damage to public and private infrastructure/assets; ii) reduced possibility of loss of life; and iii) enhanced land value in flood-prone areas. Indirect benefits include: i) reduced losses in income/sales; ii) reduced costs of clean-ups, maintenance and repairs; iii) reduced costs of relief and response efforts; and iv) reduced possibility of health hazards. In addition to these 26,000 direct beneficiaries, the general population of Apia Urban Area AUA -37,000 inhabitants, will benefit from the safeguarding of critical economic assets and learning that will be generated. For example, protection of bridge infrastructure in the AUA will benefit livelihoods across both Upolu and Savai'i (two main islands conforming Samoa) as there will be more reliable access to markets for agriculture and trade goods.

During reporting period much progress has been made on the establishment of mechanisms for implementation including the set-up of the VCP PMU. Several studies have been undertaken to inform implementation of the VCP WPB. These included the interdependence study, design studies for drainage, sewage and other infrastructure (river walls and bridge) – as well as feasibility and description of selection criteria, viability assessment and OM for Activity 2.2.

Progress remains on track against the investment criteria as per the VCP Implementation Plan.

2.2.1 Impact Potential (max one (1) page).

In acknowledgement of the significant amount of new and existing infrastructure within the AUA, the VCP as previously stated, has been designed to reduce the risk of damage to infrastructure during flooding and extreme weather events. Resilient infrastructure will enable the population residing in the catchment and those reliant on that infrastructure to recover quickly following a natural disaster.

During the reporting period, the VCP has been consolidating and building on the achievements of the UNDP –GoS Economy Wide Adaptation to Climate Change (EWACC) project funded by the Least Developed Countries Fund (LDCF) working on Segment 1 of the Vaisigano River (VR). Extensions to the flood protection walls along the VR have been form part of the VCP, the complimentary nature of the work of EWACC has resulted in contact extensions with slightly revised scopes under the VCP for some EWACC contracts to ensure consistency in construction and implementation. EWACC's work with the review and development of the new National Building Code (NBC) has been further disseminated by the VCP awareness campaigns that are promoting and supporting the implementation of the new NBC with reference to the additional sections of disaster resilience and climate change adaptation.

Key works along the river wall including extensions at Leone Bridge, protecting the hydroelectric penstock at Loto Samasoni and Segment 2 priority works have been given precedence to ensure that the ongoing works do not exacerbate flooding risk and existing infrastructure is not damaged before flood protection is installed.

To manage run off through community adaptation, the participatory mapping exercises undertaken as part of Activity 2.2 activities have identified key vulnerable areas which will form part of the Cash for Work (CfW) programme to be rolled out for the duration of the VCP. This will necessitate the upscaling of nurseries in Q1 2019.

Community consultations have stimulated recipients to consider diverse income streams (such as vegetable gardens, hand-crafts, and tourism services), which have been identified to be economically viable. The VCP through the engagement of SBEC will involve working with existing Community Services Organisations (CSOs) and Non-Government Organisations (NGOs) who are already involved in developing alternative income streams for women (Women in Business Development Inc (WIBDI)) and Samoa Association of Manufacturers and Exporters (SAME) who will share their expertise in developing value chains for small enterprises. Further consultation with representatives of People with Disabilities (PWD) will address and identify their needs and opportunities for their participation in the cash economy.

To support the diversification of income streams, SBEC is implementing the small business “incubator” for the EbAED activities. The SBEC approved WPB includes training activities and relevant approaches to encourage women and marginalised groups to actively participate in the small business incubator.

Activities that have targeted the entire AUA population are; the validation of the drainage masterplan and the scoping and specification completed for the flood EWS and ESN.

2.2.2 Paradigm shift potential (max one (1) page).

For the VCP paradigm shift is understood as the support towards strengthening national capacity and mechanisms to reduce flood related risks in the VRC induced by climate change and to overcome the barriers preventing these efforts.

During the reporting period, the VCP has set the foundations for a cross-sectoral approach in the VRC that was lacking due to the absence of feasibility studies. Four feasibility studies have been commissioned and provided data to the GoS to carry out important initiatives such as climate-proofing of the CCIR and Flood Buffering Reservoir.

VCP has worked to sensitize communities living alongside the VR to follow and the implementation the new NBC with reference to the additional sections of disaster resilience and climate change adaptation through awareness campaigns.

In addition, VCP is designed to reduce vulnerability of AUA's population to climate change induced hazards by supporting the construction and strengthening of physical assets along the VR. During the reporting period, the design for channelization of Segments 2,3 and 4 of the VR including the impact on channel capacity of the new Lelata Bridge has been reviewed and will inform the establishment of flood protection measures in the 3 segments.

The AUA currently has no validated master plan for management of the urban stormwater network. Validation of the urban stormwater masterplan will integrate the VCP stormwater systems to a wider stormwater network that can be upgraded according to recognized national priority areas of the Samoa Water Authority (SWA).

2.2.3 Sustainable development potential (max one (1) page).

The VCP has the advantage of being implemented within an enabling environment lead by the GoS, and it's Samoa Development Strategy (SDS-Accelerating Sustainable Development and Broadening Opportunities for All) where sustainable development is a high national priority.

The VCP will contribute towards the following sustainable development goals in Samoa, SDG Goal 13 - Take urgent action to combat climate change and its impacts and SDG Goal 17- Strengthen the means of implementation and revitalise the global partnerships for sustainable development. The VCP directly contributes towards the following targets:

- 13.1 -strengthening resilience and adaptive capacity to climate related hazards and natural disasters in all countries; and
- 13b promoting mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing states, including focusing on women, youth and local and marginalized communities.

The VCP directly contributes to Samoa's aspirations with respect to Goal 11 -: Making cities and human settlements inclusive, safe, resilient and sustainable (especially target 11.5): By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, (including water-related disasters, with a focus on protecting the poor and people in vulnerable situations).

Recent GoS policies such as the NBC approved by Cabinet has brought to the forefront the need for environmental and climate change considerations when constructing buildings and houses both for public and private use. The Planning and Urban Management Act (PUMA) 2004 and development consent process ensures that land planning and development issues are considered and where there is non-compliance, there have been cases of prosecution. Whilst the development consent process is still being fine-tuned, it is encouraging for the VCP that there are national safeguards in place.

For the VCP, the key to its sustainability is community engagement and national ownership both of which have progressed significantly in 2018 due to several community participation and consultations in addition to inclusive exchanges between the Responsible Parties (RPs) for example the Activity 2.2 TAG which includes all RPs involved in the implementation of Output 2, Activity 2.2 work plan.

An important outcome of Activity 2.2 is the diversification of incomes for communities which will improve their overall financial stability but particularly following extreme weather events. The sustainability of the VCP will be assured through rigorous and ongoing community consultations (which was part of the participatory mapping exercise), skills profiling, and value chain development planned for 2019 and the life of VCP. This approach will ensure that the community will be personally invested and has the capacity, ownership and desire to continue the initiatives put in place under the VCP.

2.2.4 Needs of the recipient (max one (1) page).

The VCP has taken significant steps in gathering baseline data through community engagements and consultations to ensure that activities are closely aligned with the aspirations and needs of the communities. This has resulted in some activities being prioritised to ensure that the most immediate needs of the communities in the VCA are met in a timely manner. These consultations have reaffirmed the aspirations and needs of communities as identified in the FP.

During 2018, a significant number of community consultations have taken place, these include:

- Activity 1.1 Community consultations on the Flood Interdependence Study (the Flood Interdependence Study assesses the impact of all hard and soft measures undertaken in the VCA to mitigate flooding with a view to optimising proposed solutions. The results of which will be used to inform design decision for the remaining floodwalls, bridges and land use planning for PES and CfW, took place in September 2018.
- Activity 1.2.3. Community consultations and awareness raising on the sirens activation and EWS including health related issues involved all 24 villages in Q4 2018.
- Activity 1.4.1 Community consultations on the NBC took place in March and May 2018.
- Activity 2.2 EbAED programme has completed three rounds of community consultations:
 - 18th -19th July –served as an introduction of the VCP with an emphasis on Activity 2.2 community aspiration/ pre-awareness exercise aimed at providing a foundation for the follow up consultations;
 - 29th – 30th August – focused on a participatory mapping exercise involving communities; and
 - 14th -15th November - carried out in the villages and focused on key priority areas for EbAED and CfW, and how to access resources (by trialling application forms) for implementation of community priorities.
- Activity 3.2.3 LTA facilitated and lead community consultation in December 2018 to discuss possible drainage solutions and related works within the VCA.

2.2.5 Country Ownership (max one (1) page).

The VCP has the advantage of being implemented within an enabling environment lead by the GoS and integrated with its SDS (Accelerating Sustainable Development and Broadening Opportunities for All) where sustainable development is a high national priority.

Country ownership remains very strong and demonstrated by the Chief Executive Officer (CEO), MOF as the Chair of the Project Board (PB)/Project Steering Committee (PSC) comprising of all the RPs, National Designated Authority/Executing Agency (NDA/EA), Accredited Entity (AE)/UNDP, collaborating agencies and Responsible Parties (RP). The PB/PSC held five quarterly meetings and one Special Meeting during the reporting period. Senior management of the GoS, led by the CEO, MOF, the UNDP Resident Representative (RR) and the GCF-PMU held several coordinating meetings as required to ensure effective coordination, integration and monitoring the implementation of the VCP approved WPB and to address timely VCP issues that may affect implementation. The NDA/MOF, RPs, UNDP and GCF-PMU held 2 days Retreat on 6th and 13th November to review and validate

the Draft MYWPB based on the ProDoc Outputs and Activities, timelines, budgets and cost estimates. The Retreat also reviewed the Draft Monitoring and Evaluation Framework (MEF) at the sub-output and activity levels integrated with the VCP MEF in the ProDoc.

A VCP Officer (member of the GCF-PMU Team) is located within the RPs-MWTI, MoH, LTA respectively and two located in the MNRE ensuring that the VCP approved AWP implemented by the relevant IA is effectively implemented, monitored and ensuring the VCP is well embedded within the RP's daily planning, management and monitoring. This supports and strengthens partnerships, clear linkages and improved communication of the VCP PMU Team with the RPs Management and the Executing Entity (EE)/NDA. The VCP PMU submits monthly progress report/updates to inform the NDA, UNDP, RPs and members of the PB/PSC of the VCP progress and implementation issues for timely resolution. GoS counterpart staff within the RPs and NDA are involved daily with coordinating, supporting and ensuring effective implementation of the VCP approved WPB.

The Cabinet Development Committee (CDC) has been briefed and updated twice, in August and December, of the VCP progress and challenges by the CEO MOF. The updates are well received by Cabinet who are well informed of the VCP progress and challenges. It is anticipated that the VCP activities and objectives are included in IA's corporate and sector plans which will further embed the programmatic approach.

A TAG for Activity 2.2 was established and has held two meetings during 2018 to ensure national ownership at the technical level.

On a community level, consultations led and coordinated by the IA's continues to ensure a close working partnership with the beneficiaries in the VCA and strengthened awareness and achievement of the VCP objectives.

2.2.6 Efficiency and Effectiveness (max one (1) page).

The PMU has achieved the following critical deliverables itemised under clause 9 of the FAA:

- Inception Report
- Communication Strategy
- Gender Plan
- Viability Assessment
- Description of selection criteria (used for the ecosystem activities)
- Operational Manual (containing detailed guidelines and procedures for Activity 2.2)

The PMU commissioned four feasibility studies as in the approved annual work plan and the ProDoc (to further inform implementation and construction) as well as the OM for Activity 2.2. The VCP implementation momentum is steadily increasing with the focus on reducing the vulnerability of the population in AUA through minimizing the likelihood of damages from extreme weather events in the VRC. To do so the VCP is implementing hard measures (river walls, updating drainage, etc) in combination with soft interventions (reforestation in recharge zones in the VRC, PES, etc.).

VCP has been operating and implementing activities according to the MYWPB in the ProDoc as approved by GCF and the approved AWPB by the PB/PSC. More than 70% of the first disbursement (received August 2017) received by GoS during the reporting period has been utilized to implement the approved WPB, meeting the disbursement target to trigger the second disbursement and release of the first contingency. The second disbursement of funds from GCF to UNDP was received in Q4, November 2018. The first advance of funds to the GoS from UNDP against the second disbursement from GCF, was received by the GoS in December and as of the end of Q4 2018, 70% of the advance has been disbursed.

The VCP co-financing arrangement between the GoS and GCF is materialising as expected. To date the co-financing is funding staff costs, office space, maintenance of VCP assets, operating and maintenance costs for transport and utilities.

2.3 PROJECT OUTPUTS IMPLEMENTATION STATUS ³			
Project Output	Project Activity	Status ⁴	Implementa- tion progress (%) ⁵
Output 1 Assessments and mechanisms in place for an integrated approach to reduce vulnerability towards flood-related risks	Activity 1.1 Strengthen capacities and information requirements to pursue an integrated programme approach to flood management	Activity Started -progress on track	50% overall
	<p>1.1.1 Feasibility Study: Review of Interdependence of Flood Mitigation Options 85% of contract deliverables have been met. Both the in-country Inception workshop and Options Assessments Workshops were well attended by RPs and some representatives of the communities who provided invaluable guidance to the consultants as to areas requiring their focus and efforts, by way of traditional knowledge and technical input to existing infrastructure The results of the study have made a significant contribution to the development of other activities particularly flood warning and proposed infrastructure such as Lelata Bridge, drainage and flood walls and Flood Buffering Reservoir.</p> <p>1.1.2 Feasibility Study: Flood Buffering Reservoir ADB funds are currently being used to undertake the feasibility study as they put together a case for the full construction of the multi-purpose dam (flood buffering). UNDP is working closely to finalise a co-financing agreement as requested by the GoS to cost share the feasibility study.</p> <p>1.1.3 Feasibility Study: Concept Design for Apia Integrated Sewerage System (AISS) Procurement action is underway.</p> <p>1.1.4 Feasibility Study: Conduct Feasibility Studies for flood-proofing Central Cross Island Road (CCIR) Contract awarded and design work underway. Draft Inception Report submitted and under review. LTA is the lead IA for this activity.</p>	<p>Please include a list of key milestones and deliverables expected to be executed in the next reporting period.</p> <p>1.1.1 Feasibility Study: Review of Interdependence of Flood Mitigation Options</p> <ul style="list-style-type: none"> Completion of the final deliverables under the Flood Interdependence study Completion of Training for RPs in operating hydrological flood model in infrastructure design and installation Possible involvement in Flood forecasting activity <p>1.1.2 Feasibility Study: Flood Buffering Reservoir</p> <ul style="list-style-type: none"> Finalisation of co-financing agreement and facilitate payment <p>1.1.3 Feasibility Study: Concept Design for Apia Integrated Sewerage System</p> <ul style="list-style-type: none"> Finalised procurement action and implementation of works associated with design <p>1.1.4 Feasibility Study: Flood Proofing of Central Cross Island Road</p> <ul style="list-style-type: none"> Complete design as per contract with successful contractor by end 2019. Construction component of this activity will be financed and implemented by the ADB. 	
	Activity 1.2 Establish health surveillance systems to track and manage flood-related health issues	Activity Started -progress on track	20% overall

³ Outputs and Activities reported here should be aligned with the Activities in the Logic Framework and Implementation Timetable of the VCP.

⁴ Activity Not Yet Due; Activity Started -ahead of schedule; Activity started – progress on track; Activity started but progress delayed; Activity start is delayed.

⁵ Implementation progress on a cumulative basis as of the date of the report.

	<p>1.2.1 Inclusion of flood related information in CLEWS messaging system Recruit TA to review and design health surveillance system to track and</p> <ul style="list-style-type: none"> MoH as lead RP supported and in collaboration with the MNRE DMO and the GCF-PMU conducted community consultations on health-related issues as part of the EWS siren activation awareness programme. <p>1.2.2 Train health practitioners dealing with flood-related emergencies;</p> <ul style="list-style-type: none"> This activity has not yet started. <p>1.2.3 Train village councils on how to prepare for and evacuate flood-related victims</p> <ul style="list-style-type: none"> MoH conducted their Integrated Health Awareness Programs on the 3rd and 4th December 2018 – 140 stakeholders attended from all villages in the VCA. Programme was designed to raise awareness in the villages on flood related illnesses and injuries, how and when to seek medical assistance and how to prevent disease outbreaks. <p>1.2.4 Awareness raising among health practitioners and village councils about flood related EWS</p> <ul style="list-style-type: none"> This activity has not yet started. 	<p>1.2.1 Inclusion of flood related information in CLEWS messaging system Recruit TA to review and design health surveillance system to track and</p> <ul style="list-style-type: none"> Recruitment of consultant is under review <p>1.2.2 Train health practitioners dealing with flood-related emergencies;</p> <ul style="list-style-type: none"> Capacity building for flood risk reduction (Train first respondents, Emergency Medical Technicians (EMTS), fire department and police, flood related first aid officers, helicopter pilot(s)) <p>1.2.3 Train village councils on how to prepare for and evacuate flood-related victims</p> <ul style="list-style-type: none"> Capacity enhancement of district village councils and community level on planning for flood preparedness and emergency management (CDCRM - DMO) <p>1.2.4 Awareness raising among health practitioners and village councils about flood related EWS</p> <ul style="list-style-type: none"> Planning a multimedia campaign for early 2019. Procurement and distribution of disaster response kits specific for flooding incidents to health practitioners 	
<p>Activity 1.3 Expand EWS coverage to provide flooding alerts in Apia</p>		<p>Activity Started -progress delayed</p>	<p>20% overall</p>
	<p>1.3.1 Update data collection to undertake hydrological modelling to generate flood scenarios</p> <ul style="list-style-type: none"> Finalised ToR –for Procurement and installation of rainwater gauges in the land areas of the catchment and procurement of river flow monitoring points. <p>1.3.2 Integration of flood warning into the EWS in Vaisigano River Catchment</p> <ul style="list-style-type: none"> A scoping and specification exercise was completed in May 2018 for the EWS installation. This was to ensure that the system will be compatible with the existing emergency radio network and existing ESN for VCP. The resulting report will be used to procure a contract for supply and installation of the siren system in 2019. The procurement of the system is delayed due to integration and coordination of VCP ESN/EWS with the World Bank funded National Multi-hazard EWS. This consultancy aims to coordinate all data streams for the meteorology and hydrology departments within the MNRE and nationally. <p>1.3.3 Conduct awareness of the sounds and activation of the EWS to the risk populations</p> <ul style="list-style-type: none"> MNRE DMO has conducted an initial siren pre-awareness programme to all villages including schools in the VCA. 	<p>1.3.1 Update data collection to undertake hydrological modelling to generate flood scenarios</p> <ul style="list-style-type: none"> Issue Tender for the procurement and installation of rainwater gauges in the land areas of the catchment and procurement of river flow monitoring points <p>1.3.2 Integration of flood warning into the EWS in Vaisigano River Catchment</p> <ul style="list-style-type: none"> Procurement of sirens based on specifications as result of Scoping consultancy services Installation of sirens and signposts after Vaisigano Wall segments 2, 3 and 4 (2019 and beyond) <p>1.3.3 Conduct awareness of the sounds and activation of the EWS to the risk populations</p> <ul style="list-style-type: none"> A follow up will be conducted once the installation of the ESN is completed 	

	<p>Activity 1.4 Conduct awareness raising campaigns on building practices and designs for at risk communities living along the Vaisigano River</p>	<p>Activity Started -progress on track</p>	<p>40% overall</p>
	<p>1.4.1 Translation of the new building code and Apia spatial plan into simple manuals for builders to follow</p> <ul style="list-style-type: none"> Public awareness for the NBC was undertaken nationwide. Procurement action completed, and contract awarded to consultant to translate the NBC. Procurement action initiated for the Simplified Builders Handbooks (5 types). <p>1.4.2 Production of exhibition on flood-proof building</p> <ul style="list-style-type: none"> Exploratory site visits to determine the location of the model houses. <p>1.4.3 Engage builders association on flood-proof buildings Draft policy for a building practitioner's registry submitted by the MWTI Building Division to the GoS Policy Steering Committee for approval</p> <p>1.4.4 Articulation of Appropriate land use practices to be used in Upland Watershed Conservation Policy and the 2 million trees campaign (Upland Regulations)</p> <ul style="list-style-type: none"> TOR for the drafting of the Tree Management Policy (TMP) for Disaster Risk Reduction finalised. 	<p>1.4.1 Translation of the new building code and Apia spatial plan into simple manuals for builders to follow</p> <ul style="list-style-type: none"> Complete translation of the NBC Q2 2019. Completion of Builders Handbooks design contract followed by printing and distribution Conduct multimedia awareness campaign for both publications <p>1.4.2 Production of exhibition on flood-proof building</p> <ul style="list-style-type: none"> Location and ownership of the model houses in the communities to be finalised in 2019 Procurement of a TA to undertake design and supervision services for the model houses <p>1.4.3 Engage builders' association on flood-proof buildings</p> <ul style="list-style-type: none"> Awareness campaign on the Policy for Building Practitioners Registry Database for registration established. <p>MWTI conduct free training in flood and disaster proof building methods.</p> <p>1.4.4 Articulation of appropriate land use practices to be used in Upland Watershed Conservation Policy and the 2 million trees campaign (Upland Regulations)</p> <ul style="list-style-type: none"> Procurement action underway for TA to develop TMP Drafting of TMP) Public Awareness undertaken by MNRE DMO on the TMP 	
<p>Output 2 Infrastructure in the Vaisigano River are flood-proofed to increase resilience to negative effects of excessive water</p>	<p>Activity 2.1 Channelization of segment 2 and 3 of the Vaisigano River streambed to accommodate increased water flow and decrease flood risks</p>	<p>Activity Started -progress on track</p>	<p>20% overall</p>
	<p>2.1.1 Review design for channelization of Segments 2,3 and 4 of the Vaisigano river including the impact on channel capacity of the new Lelata Bridge and the potential for optimizing scheme design and durability</p> <ul style="list-style-type: none"> Desktop review of the existing design for the Vaisigano floodwall produced under a different project) conducted by MWTI in-house engineers. <p>2.1.2 Establishment of flood protection measures along Segments 2,3 and 4 of Vaisigano river</p> <ul style="list-style-type: none"> Additional priority construction works undertaken to protect vulnerable infrastructure (hydroelectric penstock at Loto Samasoni power station) in segment 2. Completed in Q2, the completed works will form part of the flood protection works for segment 2 <p>2.1.3 Capacity building of maintenance teams for flood protection measure</p> <ul style="list-style-type: none"> Activity yet to start. <p>2.1.4 Contracting members of the local communities for execution of activities regards to building and landscape restoration along the Vaisigano River</p>	<p>2.1.1 Review design for channelization of Segments 2,3 and 4 of the Vaisigano river including the impact on channel capacity of the new Lelata Bridge and the potential for optimizing scheme design and durability</p> <ul style="list-style-type: none"> Complete desktop Design review by MWTI in-house engineers Initiate Procurement action include finalisation of ToR Complete Landowner Consultations Finalise and sign MOU with landowners for priority works Tender priority construction works– construction to commence in Q3, 2019 <p>2.1.2 Establishment of flood protection measures along Segments 2,3 and 4 of Vaisigano river</p> <ul style="list-style-type: none"> Complete construction of more priority works along segment 2 Complete construction of remaining sections of segment 2 by Q4, 2019 	

	<ul style="list-style-type: none"> • Activity yet to start. 	<p>2.1.3 Capacity building of maintenance teams for flood protection measure</p> <ul style="list-style-type: none"> • Planned for 2022 <p>2.1.4 Contracting members of the local communities for execution of activities re-gards to building and landscape restoration along the Vaisigano River</p> <ul style="list-style-type: none"> • Monitoring and profiling of River water Quality • Planning stakeholder workshops and consultations • Initiate Nursery Upscaling • Community Consultation for activity design and requirements • Recruitment and training of temporary workers under the CfW • Complete Segment 1 Restoration
<p>Activity 2.2 Implement ecosystem responses upstream for decreased flows during extreme weather events</p>		<p>Activity Started -progress on track 50% overall</p>
	<p>2.2.1 Participatory mapping by communities and values chain system actors - crop selection - support delivery mechanisms - conservation areas - market mapping This activity is 80% complete based on approved WPB.</p> <ul style="list-style-type: none"> • Five MNRE staff and a UNV GIS specialist presented their work on the GCF-VCP at the Pacific GIS and Remote Sensing Conference held in Suva Fiji (26th October to 1st November 2018). This exchange will benefit the VCP through enhanced knowledge in the application of GIS and remote sensing products to produce enhances maps and materials to inform land use planning and relevant assessments of vegetation cover and potential work locations for future activities in 2.2 • Following on from the August 2018 initial consultation with stakeholders, a VCA wide participatory mapping exercise was held. 22 villages were consulted with a total of 471 people (39% female 61% male). With the main objectives of the exercise to 1. Inform participants of EbAED that can be supported under the VCP. 2. Land use maps and land use planning exercises to identify locations for potential EbA sites, degraded sites in need of restoration (CfW) and vulnerable site that are prone to slips and flooding. • Land Use Activity Maps were produced with participation of the communities during public consultations. <p>2.2.3 Enterprise development of small agriculture and flood management businesses through business management training and credit guarantees through support to small business enterprise centre</p> <ul style="list-style-type: none"> • HACT micro assessment of SBEC by UNDP confirmed SBEC capacity for implementation of VCP activities. The final assessment was MODERATE which is acceptable with regular spot checks by UNDP's finance unit. • Both SBEC (partner responsible for providing training and technical support for EbA beneficiaries) and CSSP (responsible party in implementing EbAED programme activities) have approved WPBs by MOF and MNRE for 18 months duration. SBEC and CSSP have been heavily involved in the community consultations mentioned in sub activity 2.2.1 • To support implementation of EbAED and CfW programmes separate MOUs have been signed between MNRE and SBEC, ILO, and MCIL respectively. <p>2.2.4 Strengthen value addition, market and business development (based on market mapping)</p> <ul style="list-style-type: none"> • This activity has been informed by the development of Selection Criteria, Viability Assessment (annexed) and OM This will be further developed through market mapping. 	<p>2.2.1 Participatory mapping by communities and values chain system actors - crop selection - support delivery mechanisms - conservation areas - market mapping</p> <ul style="list-style-type: none"> • Conduct assessment crucial to ecosystems for conservation • Development, packaging and dissemination of climate smart practices among community members <p>2.2.2 Development, packaging and dissemination of climate smart practices among community members</p> <ul style="list-style-type: none"> • Recruitment of TA to undertake research and development for suite of climate smart practices • Conduct awareness and dissemination of climate smart practices among key community groups <p>2.2.3 Enterprise development of small agriculture and flood management businesses through business management training and credit guarantees through support to small business enterprise centre the construction and supervision</p> <ul style="list-style-type: none"> • Establish women producer groups to support adoption of climate-resilient crops and practices through the CSSP and in partnership with the Women in Business Development Initiative (WIBDI). <p>2.2.4 Strengthen value addition, market and business development (based on market mapping)</p> <ul style="list-style-type: none"> • Recruitment of consultant to develop value chain and market opportunities for EbAED beneficiaries. <p>2.2.5 Work with the communities involved to increase afforestation/ conservation of native species where necessary to reduce flood risks the construction and supervision</p> <ul style="list-style-type: none"> • Determine and implement the best protection options for flood

	<p>2.2.5 Work with the communities involved to increase afforestation/ conservation of native species where necessary to reduce flood risks</p> <ul style="list-style-type: none"> September 15th -26th PMU and RPs conducted a study /fact finding mission to Vanuatu and Fiji to visit PES programmes established by Nakau Pty/EKOs in Vanuatu and Fiji. The mission also met with ILO Fiji to discuss CfW options that could be implemented under the VCP in Samoa. Contracted Nakau Pty/EKOS to undertake the Feasibility study for the PES programme of the-VCP. The first in country mission was 26th-30th Nov 2018 to conduct a pre-feasibility assessment for the PES programme. The CfW WPB has been developed by MNRE and its responsible divisions: Water Resources Division (WRD), Division of Environment and Conservation (DEC), and Forestry. MoU was signed on 31st October 2018 between the MNRE, Ministry of Commerce Industry and Labour (MCIL) and ILO to undertake technical assistance through occupational safety and health (OSH) trainings. 20 community labourers have been engaged under the DEC CfW programme to kick start the reforestation programs for Malololelei and Vailima from 12-24 November 2018. A MoU was signed on 19th December 2018 between SBEC and MNRE to deliver small business training and technical advice for the EbAED programme in coordination with the CSSP and MNRE. Following a consultation with villages in the lower catchment on Waste management Awareness, Campaigns were conducted for waste generation and management for communities in the VCA. 	<p>management activities from Ridge to Reef, depending on landscape, land tenure, existing land use and planned developments.</p> <ul style="list-style-type: none"> Undertake identification and ground truthing exercise of open areas for rehabilitation Demarcation process of one area within the Vaisigano River Catchment as a 'no development zone' in combination with a 'restricted zone' below it and assign this as a "Water Resource Protection Area" Completion of Feasibility Study on PES programme PES Design Demarcations PES Community Engagement Fencing of Protected Areas to protect from roaming livestock Follow development consent process for demarcation Develop a community-based adaptation strategy for ecosystem based alternative income generating activities Waste management workshops completed and clean up campaigns implemented <p>The following activities will be initiated in 2019 and will be completed in later years</p> <ul style="list-style-type: none"> Provision of a CfW option for flood related catchment rehabilitation (anti erosive measures, landscaping options). Recruitment of 5 workers for nursery and seedling raising Recruitment of 60 community reps for CfW intermittent programs (120 days/yr.) Procurement of nursery equipment, safety gear, etc Community engagement to Conduct trainings/capacity building activities for community reps Conduct twenty (20) community engagement programmes for native forest replanting activities and control of invasive species Train the trainers (ToT) training for staff on the implementation of the invasive species (biodiversity) management plan Training for selected community representatives for invasive species monitoring at VC site for 6 days Monitoring survey for invasive birds around the catchment area Development and maintenance of invasive species database Prepare public awareness educational products on biodiversity conservation (Proposed- Implement outreach and awareness educational programs for biodiversity management) Engage SUNGO and members to participate in two million trees campaign Engage SCS, Pro Green, YCAN to implement community rehabilitation activities and awareness Public Awareness raising and Education programs for Waste management
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Activity 2.3 Construction upgrade of Lelata Bridge to accommodate increase flood waters		Activity Started -progress on track	10% overall
<p>2.3.1 Design and Supervision of the reconstruction of Lelata Bridge</p> <ul style="list-style-type: none"> • Design and supervision contract awarded, and work commenced with geotechnical investigations • Received Draft Inception report and is under review by relevant RPs, NDA and GCF-PMU <p>2.3.2 Construction of Lelata bridge according to upgraded design (to maintain the design capacity of the channelization works)</p> <ul style="list-style-type: none"> • Activity yet to start 	<p>2.3.1 Design and Supervision of the reconstruction of Lelata Bridge</p> <ul style="list-style-type: none"> • Complete Bidding documents • Complete Procurement action process, award and sign contract with successful bidder • Commence construction work in 2020 <p>2.3.2 Construction of Lelata bridge according to upgraded design (to maintain the design capacity of the channelization works)</p> <ul style="list-style-type: none"> • Planned for 2020 		
Activity 2.4. Extension of floodwalls at Lelata and Leone Bridges to prevent damage during extreme events		Activity Started -progress on track	50% overall
<p>2.4.1 Review current design of floodwalls adjacent to both bridges to align with the designs of the new Leone bridge and proposed Lelata bridge)</p> <ul style="list-style-type: none"> • Activity is 20% complete. • The design of the floodwall extension downstream of Leone Bridge was undertaken by the consultants who designed and supervised the construction of segment 1. This was a variation to an existing contract under the EWACC project <p>2.4.2 Construction of floodwall extensions at Leone and Lelata bridges to prevent damage during extreme weather events</p> <ul style="list-style-type: none"> • Activity completed in Q3 2018.To ensure continuity when extending the riverwalls 40m each side downstream of the Leone Bridge, a contract variation was entered with the construction company previously engaged by the EWACC project (who completed Segment 1 of the river wall). 	<p>2.4.1 Review current design of floodwalls adjacent to both bridges to align with the designs of the new Leone bridge and proposed Lelata bridge)</p> <ul style="list-style-type: none"> • Design review for connecting the river wall to Leone and Lelata Bridge is on-going. <p>2.4.2 Construction of floodwall extensions at Leone and Lelata bridges to prevent damage during extreme weather events</p> <ul style="list-style-type: none"> • Construction of Leone Bridge extension downstream will begin end of 2019 		

<p>Output 3 Drainage in downstream areas upgraded for increased regulation of water flows</p>	<p>Activity 3.1. Develop a climate resilient Stormwater Master Plan</p>	<p>Activity Started -progress on track</p>	<p>10% overall</p>	
	<p>3.1.1 Review and Update existing Stormwater master plan to include management of urban storm water (in the Vaisigano river floodplain), consolidate in a masterplan for urban areas (Apia Urban Area - AUA) - and detail designs for 9 hazard areas identified the construction and supervision.</p> <ul style="list-style-type: none"> This activity has been integrated into the contract for design and supervision of the priority drainage areas Activity 3.2.1. Procurement action has been initiated. 	<p>3.1.1 Review and Update existing Stormwater master plan to include management of urban storm water (in the Vaisigano river floodplain), consolidate in a masterplan for urban areas (Apia Urban Area - AUA) - and detail designs for 9 hazard areas identified the construction and supervision.</p> <ul style="list-style-type: none"> All outcomes pertaining to this activity are now integrated into Activity 3.2.1 or for the hydraulic model are an output of Activity 1.1.1 Hydraulic modelling will be undertaken as part of the contract in Activity 1.1 which will complete in Q1 2019. 		
	<p>Activity 3.2. Upgrade drainage systems and outfalls in hazard areas to accommodate flooding events</p>	<p>Activity Started -ahead of schedule</p>	<p>40% overall</p>	
	<p>3.2.1 Assessment and design of the priority drainage upgrades and critical hazard areas with regards to needed upgrade</p> <ul style="list-style-type: none"> Procurement of this contract via the UNDP has been completed and contract signing is planned for January 2019. As mentioned above, the validation of the stormwater/drainage masterplan is included in this contract. Design and consultation for the installation of drainage adjacent to segment 1 of the riverwall is underway. LTA and MWTI conducted initial community consultations on 13th December with communities in Segment 1 of VCA. Design options were presented and were well received by the communities in Segment 1. <p>3.2.2 Implementation of priority drainage upgrades</p> <ul style="list-style-type: none"> Priority drainage works identified by GoS have been implemented by VCP, this includes during 2018, drainage for the ApWP. <p>3.2.3 Upgrade drainage outfalls and adjacent piped reticulation in critical hazard coastal (AUA) areas</p> <ul style="list-style-type: none"> Priority drainage upgrades have been installed as part of the Apia Waterfront VCP and are located within one of the nine priority areas indicated for Activity 3.2. Preliminary design for drainage adjacent to segment 1 of the river wall has been shared with the community members. 	<p>3.2.1 Assessment and design of the priority drainage upgrades and critical hazard areas with regards to needed upgrade</p> <ul style="list-style-type: none"> Complete Validation of Masterplan Design and documentation of 9 priority sites ready for tendering in Q4, 2019 MoU signed with segment 1 stakeholders to allow implementation of drainage works to begin <p>3.2.2 Implementation of priority drainage upgrades</p> <ul style="list-style-type: none"> Completed Procurement of supply and installation of drainage solutions by Q4 2019 <p>3.2.3 Upgrade drainage outfalls and adjacent piped reticulation in critical hazard coastal (AUA) areas</p> <ul style="list-style-type: none"> Commence the installation of priority drainage in 2019 Procurement of pipes for drainage adjacent to segment 1 of the riverwall 		

2.4 PROGRESS UPDATE ON THE LOGIC FRAMEWORK INDICATORS⁶

2.4.1 PROGRESS UPDATE ON FUND-LEVEL IMPACT INDICATORS OF THE LOGIC FRAMEWORK

Fund-level impact Core indicators ⁷	Baseline	Current value ⁸	Target (mid-term)	Target (final)	Remarks (including changes ⁹ , if any)
<p>A3.0 Increased resilience of infrastructure and the built environment to climate change: 3.1 Number physical assets made more resilient to climate variability and change, considering human benefits</p>	<p>No single engineered river works solutions to minimize and to withstand flooding exists in Segments 2, 3 and 4 in the Vaisigano River.</p>	<p>A total combined extension of 360 meters of floodwalls was funded under the GCF-VCP in collaboration with the EWACC Project and GoS</p> <p>VCP funded additional piling works to protect the Electric Power Corporation penstock leading into the Loto o Samasoni Power Station. This structure also formed part of the channelization works in segment 2.</p> <p>Actions planned for the next reporting period include other activities that will contribute to the increase in the number of physical assets made more resilient</p>	<p>-</p>	<p>Following physical assets constructed or strengthen: Channelization of Segments 2, 3 and 4 of the Vaisigano River Construction upgrade of Lelata bridge Extension of floodwalls at Lelata and Leone Bridges</p>	<p>Variations for extension of floodwalls and additional piling works under the EWACC Project and other necessary prioritised areas in segments 2 & 3 of the VR were approved by the PB/PSC and Cabinet to be funded under the VCP.</p>
<p>A3.0 Increased resilience of infrastructure and the built environment to climate change: 3.2 Value of physical assets made more resilient to climate variability and change, considering human benefits</p>	<p>EWACC Project (12 M) climate proofing only segment 1 of Vaisigano river catchment area.</p>	<p>Under Output 2 (Establishment of flood protection measures along segments 2, 3 & 4 of the Vaisigano River), a combined total of \$2,110,404.25 USD was contracted for river channelization works in segments 2 & 3 of the Vaisigano River (listed above) to accommodate increased water flow.</p> <p>A contract of \$551,770 USD was approved by PB/PSC to be awarded to the winning bidder for the engineering design and supervision of the Lelata Bridge. Contract was officially signed on 21st November 2018 and geotechnical investigations will commence in January 2019.</p>	<p>-</p>	<p>At least 40 M dedicated to climate proof segment 2, 3 & 4 and drainage works in AUA.</p>	<p>Variations for extension of floodwalls and additional piling works under the EWACC project and other necessary prioritised areas in segments 2 & 3 of the VR were approved by the PB/PSC and Cabinet to be funded under the VCP.</p> <p>The design and supervision contract for the construction of the Lelata Bridge was brought forward to 2018 (originally planned for 2020).</p>

⁶ Per the approved methodology in and the Logic Framework in the Funding Proposal, please provide an update on the relevant indicators.

⁷ As per the relevant indicators established in the Funding Proposal and the Performance Measurement Framework, including all indicators approved by the Board and relevant updates agreed with GCF, if applicable.

⁸ As of 31 December of the relevant year.

⁹ Related to the approved indicators and targets in the Logic Framework.

2.4.2 PROGRESS UPDATE ON PROJECT/PROGRAMME LEVEL INDICATORS OF THE LOGIC FRAMEWORK¹⁰

Project/Programme indicators (Mitigation/Adaptation)	Baseline	Current value ¹¹	Target (mid-term)	Target (final)	Remarks (including changes ¹² , if any)
A7.0 Strengthened adaptive capacity and reduced exposure to climate risks					
A 7.1 Use by vulnerable households, communities, businesses and public-sector services of Fund supported tools, instruments, strategies and activities to respond to climate change and variability.	Currently, residents and economic assets located in the AUA lack protection from extreme flooding of the Vaisigano River	Currently, residents and economic assets located in the AUA lack protection from extreme flooding of the Vaisigano River	-	At least 26,528 residents located in the AUA are protected by flood management interventions upon completion of flood proofing and channelization works along Segments 2, 3 and 4.	Extension of floodwalls to necessary prioritised areas in segment 2 were approved by PB/PSC and Cabinet to be funded by the VCP.
A 7.2 Number of males and females (and percentage of total population) reached by climate-related early warning systems established/strengthened	Currently the EWS covers only tsunami and earthquake warnings.	Currently the EWS covers only tsunami and earthquake warnings.	-	At least 26,528 residents located in the AUA receive EWS for flooding.	The participants included representatives from a variety of groups (i.e. Church ministers, village chiefs, women's committees, youth, children and PWD). CDCRM activities implemented in some of the VCP villages
1. Assessments and mechanisms in place for an integrated approach to reduce vulnerability towards flood-related risks					
Number of sectoral plans and studies developed and/or adopted aligned to the IWMP.	Limited number of sectoral plans and projects to centrally plan drainage. No feasibility studies prepared for better rain and wastewater storage.	<p>The Feasibility Review of the interdependence of flood mitigation options for the VRC by contractor about 85% complete with 4 out of 6 deliverables completed.</p> <p>A co-funding agreement between UNDP and ADB is pending. This will facilitate payment of USD\$500,000 to ADB for the Feasibility Study for flood-buffering reservoir in the upper catchment of the VR.</p> <p>The Engineering Feasibility Study and Concept Design for Apia Integrated Sewage System TOR is being developed</p> <p>The Feasibility Study for flood-proofing of the CCIR has been awarded and work has commenced in December. The consultant will</p>	-	4 sectoral plans / studies developed/adopted for key sectors in the Greater Apia Catchment (Roads, Drainage, Reservoir, Water supply, etc.) aligned to the IWMP.	<p>The procurement process for the Engineering Feasibility Study and Concept Design for Apia Integrated Sewage System was initially undertaken through UNDP MCO/Kuala Lumpur in Q2. Revalidation of the scope of work by SWA resulted in the redrafting of the TOR to prioritise key vulnerabilities, align it with prior studies that have been conducted in the last 30 years by SWA and match the original budget for the study.</p> <p>The structure of the contract and ToR for the CCIR feasibility study has since been simplified to have two separate contractual components for ADB and VCP which will serve consecutively. The contract sum for feasibility study for the CCIR is above the Budget by USD\$99,737. The excess costs of \$99,737 will be funded from contingency funds as per PB/PSC approval</p>

¹⁰ As per the relevant indicators established in the Funding Proposal and the Performance Measurement Framework, including relevant updates agreed with GCF, if applicable.

¹¹ As of 31 December of the relevant calendar year.

¹² Related to the approved indicators and targets in the Logic Framework.

		<i>undertake survey corrections, complete the previous design and provide bidding documentation for the procurement of a contractor to implement the construction works for CCIR.</i>			
<i>Number of technical and extension officers trained on flood-related EWS data collection and interpretation.</i>	<i>Limited capacity exists for technicians to interpret early warning data instruments and utilize for flood-related response.</i>	<i>Training will commence in 2019 upon the installation of sirens and monitoring tools and EWS is activated</i>	-	<i>At least 300 technicians will be trained on EWS related to flooding.</i>	<i>Progress on track</i>
2. Infrastructure in the Vaisigano River are flood-proofed to increase resilience to negative effects of excessive water					
<i>Number of people benefiting from improved flood management through implementation of hard and soft measures for protection of community assets (set by gender)</i>	<i>No people benefit from flood management from climate-resilient flood protection measures introduced in VRC for protection of community assets.</i>	<i>A total of 3,509 people (1,767 males and 1,742 females) in the targeted villages located in the AUA are protected upon completion of flood proofing and channelization works along segments 1 and 2 to accommodate increased water flow.</i>	-	<i>At least 26,528 people benefit from improved flood management from climate-resilient flood protection measures introduced in VRC for protection of community assets (separate gender).</i>	<i>Upon commencement and completion of upcoming major activities in the next years, 26,528 people are estimated to benefit from both hard and soft measures for protection of community assets.</i>
<i>Number of people reached by flood-related EWS established (separate by gender).</i>	<i>The current EWS does not cover floods.</i>	<i>An outreach program designed to inform and raise awareness on the sirens familiarizing them with the sounds and how it will be used in time of emergency, was conducted by MNRE, DMO in collaboration with MOH. A total of 818 (437 females and 381 males) representatives from each of the targeted villages attended.</i>	-	<i>At least 26,528 people benefit from EWS coverage related to flooding alerts in Apia.</i>	<i>Upon completion of the EWS, it is estimated that at least 26,528 people benefit from EWS coverage related to flooding alerts in Apia</i>
3. Drainage in downstream areas upgraded for increased regulation of water flows.					
<i>Number of households served with flood-proofed drainage in Vaisigano River Catchment</i>	<i>Currently, hazard areas exist within the AUA have inadequate drainage systems to withstand high volumes of water</i>	<i>The drainage upgrade works for ApWP completed.</i>	-	<i>At least 5,000 households benefit from flood-proofed drainage in Apia.</i>	<i>The TOR for a TA under output 3 was designed to deliver multiple activities under Output 3 namely, the review and update of the Stormwater Masterplan and the design for the upgrade of drainages in the identified 9 hazard areas; Procurement process is also being undertaken by UNDP KL since July 2017. Evaluation of bids received is ongoing.</i>

2.5 IMPLEMENTATION CHALLENGES AND LESSONS LEARNED

Describe implementation challenges faced during the last reporting period, including measures adopted and lessons learned. If any issues have arisen in the last twelve (12) months of implementation that may result in a change to the scope and/or timing of the VCP, please provide a description of those items and how they have impacted the implementation period and final targets.

<i>Challenge encountered</i>	<i>Type¹³</i>	<i>Measures adopted</i>	<i>Impact on the VCP implementation¹⁴</i>	<i>Lessons learned and Other Remarks</i>
Meeting Financial targets	<i>Financial</i>	Being dealt with by using hybrid and innovative approaches to implementation.	<i>Moderate</i>	The implementation of hybrid implementation mechanisms can be complicated and time consuming.
Delays in disbursement of contingency funds from GCF in accordance with the FAA.	<i>Financial</i>	Communication strengthened between the GCF, AE/UNDP and the MOF/NDA to ensure timely resolution of VCP implementation and disbursement issues and decisions related to the contingency funds.	<i>Moderate</i>	It is critical to ensure that communication is improved and agreed implementation disbursement targets are adhered to by all parties.
Lengthy and time-consuming procurement processes	<i>ProcurementProcurement</i>	Procurement has improved with forward planning, timely updating of Procurement Plan and working closely with RPs in ensuring the ToRs and documentation for tendering are prepared in specified formats for the VCP/MOF in advance to facilitate procurement process. The initial draft detailed MYWPB includes the different procurement stages to ensure these are taken on board in the planning phase to facilitate procurement and implementation on ground.	<i>ModerateModerate</i>	Given the time period between the initial design and the actual implementation, some activity details have since changed. This has resulted in TORs and scope of studies needing to be reviewed and, in some cases, rewritten to take into consideration the current situation prior to procurement and implementation actions. This has led to unplanned delays. Some procurement actions have taken longer than anticipated and planned in the implementation period.

¹³ Implementation; Legal; Financial; Environmental/Social; Political; Procurement; Other; AML/CFT; Sanctions; Prohibited Practices.

¹⁴ Minor/Solved; Moderate; High.

2.6 REPORT ON CHANGES DURING IMPLEMENTATION (include actual and expected changes)

During the 2018 reporting period no substantive changes of beneficial ownership structure, management changes of the Accredited Entity, policies and other elements relevant for the VCP, and any other material change that could influence the overall outcome of the VCP have occurred.

Outcome 1

Activity 1.1 Strengthened capacities and information requirements to pursue an integrated programme approach to flood management

Activity 1.1.2 Since the development of the VCP FP and financing agreement, the ADB has moved ahead with a Feasibility Study for a flood-buffering reservoir in the upper catchment of the VR– which has clear overlap with the VCP planned activities. To ensure synergies and avoid overlap the VCP is working closely with the ADB on this study and is looking into the possibility of co-financing of studies which are covered in the FP. The VCP has an allocated budget for feasibility study flood-buffering reservoir in the upper catchment which is linked to the Alaoa Multi-purpose Dam. Should a co-financing agreement not be finalised with ADB then the VCP will not duplicate the work (but draw on the ADB findings) and will reallocate the funds in compliance with the FAA.

Activity 1.1.2 The Engineering Feasibility Study and Concept Design for Apia Integrated Sewage System (AISS) has undergone a procurement action which resulted in a costing well in excess of the budget. A further detailed review of the TOR has been undertaken by SWA and a new procurement action is being undertaken by the GoS as approved by the PB/PSC in its meeting in November 2018. Procurement action is underway and will continue into 2019.

Outcome 2

Activity 2.2

The FP proposal refers to 18 targeted communities. The basis of the selection was on the villages predetermined vulnerability to the adverse impacts of extreme weather events and their ability to adapt climate related weather events, such as cyclones, storms and flooding. Additionally, villages in the upper catchment were selected based on the natural landowner within their village boundary.

Moving forward with the implementation of Activity 2.2 and other VCP activities, MNRE and MWTI requested consideration of the VCP PB/PSC to include a more comprehensive and inclusive scope of vulnerable villages in the VCA (including corrections to full name of villages). This has resulted in the recommended VCP coverage to include 31 targeted villages instead of 18 as originally indicated in the ProDoc. This increase of coverage will not result in a request for additional budget, however it will increase the projects ability to work with more vulnerable households and increase the number of direct beneficiaries in the VRC.

MNRE and MWTI supported by the VCP PB/PSC confirmed that the 31 villages are all within the VRC/VCA and do not change the overall description, objectives and outputs of the VCP as detailed in the FAA and the associated ProDoc between the GoS and UNDP.

The geographic scope of the VCP (the VCA/VRC) remains the same. To be more precise with regards to the targeted villages in the affected catchment the full list of affected villages where activities will be undertaken is provided below:

The 31 villages are as follows:

1. Aai o Niue	2. Matauta Uta
3. Afiamalu East	4. Matautu Tai
5. Apia	6. Moata'a
7. Avele	8. Moto'otua
9. Faato'ialemanu	10. Papauta
11. Leifiifi	12. Tanugamanono
13. Lelata	14. Tauese
15. Leone	16. Tiapapata
17. Letava	18. Tufuiopa
19. Leufisa	20. Vaiala Tai
21. Levili	22. Vaiala Uta
23. Maagiagi Tai	24. Vailima



25. Maagiagi Uta	26. Vaipuna
27. Malifa	28. Vaisigano
29. Maluafou	30. Vaoala
	31. Vinifou



SECTION 3: FINANCIAL INFORMATION

			GCF Financing Only	
			CUMULATIVE THROUGH TO THE END OF THIS REPORTING PERIOD	FOR THE CURRENT REPORTING PERIOD
			USD	USD
3.1.1	Opening Fund balance			
		Opening balance ¹		2,654,854.81
3.1.2	Funded Activity Inflows			
a		Funded Activity Proceeds from GCF to AE:		
i.		Grant Instrument	12,143,915.00	7,377,554.00
ii.		Loan Instrument		
iii.		Equity Instrument		
iv.		Guarantee Instrument		
b		Reflowed funds to the AE		
c		Investment & Other Income		
Total Inflows			12,143,915.00	7,377,554.00
3.1.3	Funded Activity Outflows			
a	Amount used for the Funded Activity	Grant expenditure	5,764,762.49	3,653,256.30
b		Loan disbursed or used ²		
c		Equity paid		
d		Guarantees exercised		
Sub-total Funded Activity Outflows			5,764,762.49	3,653,256.30
a	Reflowed Funds	Reflowed funds paid to GCF		
Sub-total Reflowed Funds			-	-
Total Outflows			5,764,762.49	3,653,256.30
3.1.4	Closing Balance			6,379,152.51
				6,379,152.51

1/ Opening balance should correspond to the closing balance of the prior reporting period

2/ Loan disbursed or used by the AE out of GCF Proceeds

SECTION 4: REPORT PROJECT SPECIFIC ON ENVIRONMENTAL AND SOCIAL

4.1 IMPLEMENTATION OF ENVIRONMENTAL AND SOCIAL SAFEGUARDS AND GENDER ELEMENTS

(max 1 page)

The overall risk for the VCP is considered Moderate as per its Environmental and Social Management Framework and Management Plan (ESMP). No additional key risks and impacts were identified during 2018 and compliance with all applicable national laws and regulations have been met.

As per Clause 9.02 (f) of the FAA, the ESMP will be reviewed prior to all physical works start.

Given the importance of assuring safeguards compliance, a National Safeguards Specialist (NSS- Environmental, Social and Gender), remains a priority for the VCP and recruitment is underway. Once on board and as per Clause 9.02 (f) of the FAA, the ESMP will be reviewed and updated.

(2) The information should include status of compliance with applicable laws and regulations of the country as well as the relevant conditions or covenants under the FAA. This can be captured in the table below:

Status of compliance with applicable laws and regulations and the conditions and covenants under FAA

Applicable laws and regulations/conditions and covenants	Status of compliance
<p>FAA Clause 6.01 This Agreement shall enter into effect on the date upon which the Fund dispatches to the Accredited Entity a notice of its acceptance of the evidence specified below (“Effective Date”): (a) A duly authorized and executed copy of this Agreement by the Accredited Entity; (b) A certificate issued by the Accredited Entity’s most senior legal officer, in a form and substance satisfactory to the Fund, certifying that this Agreement entered into by the Accredited Entity has been duly authorized or ratified by all necessary corporate actions, duly executed and delivered on behalf of the Accredited Entity, and is legally binding and enforceable upon the Accredited Entity in accordance with its terms; and (c) An indicative disbursement schedule by the Accredited Entity indicating month and year for the disbursement of the GCF Proceeds by the Fund to the GCF Account for the implementation of the Funded Activity.</p>	<p>FAA clause 6.01(a - c) has been fulfilled as of 11 July 2017.</p>
<p>FAA Clause 8.01 The obligation of the Fund to disburse GCF Proceeds in connection with the Funded Activity under this Agreement shall be subject to the following conditions having been fulfilled to the satisfaction, in form and substance, of the Fund: (a) Conditions precedent to first disbursement: (i) Effectiveness of this Agreement; (ii) Delivery to the Fund by the Accredited Entity of an executed copy of the Subsidiary Agreement, in the form of a Project Document, between the Accredited Entity and the Executing Entity; and (iii) Delivery to the Fund by the Accredited Entity of a draft terms of reference for the sub-activity 1.1.1 titled “Review of the interdependence of flood mitigation options” specified in the Funding Proposal, in a form and substance satisfactory to the Fund. (b) Conditions precedent to the second disbursement: (i) Delivery to the Fund, by the Accredited Entity, in a form and substance satisfactory to the Fund, of an operational manual</p>	<p>FAA clause 8.01(a) and (c) (iii – iv) for first disbursement has been submitted and fulfilled as of 3 August 2017. FAA clause 8.01 (b) and (c) for second disbursement has been submitted and fulfilled on 21 August 2018. FAA Clause 8.01 (c) for third and subsequent disbursements will be fulfilled at the respective disbursement request period.</p>

<p>containing detailed guidelines and procedures for the implementation of the Activity 2.2. specified in the Funding Proposal, to be prepared by the Executing Entity under terms of reference. Those terms of references shall be satisfactory to the Accredited Entity, aligned with the Funding Proposal, and be submitted to the Fund. The operational manual should include i.e. requirements for financial arrangements, business procurement, eligibility and selection criteria for beneficiaries and typology of investment and measures.</p> <p>(c) General conditions for all disbursements:</p> <p>(i) Other than in relation to the first disbursement, submission of evidence by the Accredited Entity to the Fund that at least seventy per cent (70%) of the funds previously disbursed have been spent for Eligible Expenditures;</p> <p>(ii) Other than in relation to the first disbursement, submission to the Fund by the Accredited Entity of APRs and financial information in accordance with the AMA;</p> <p>(iii) Delivery of a Request for Disbursement, in accordance with the template attached hereto (Schedule 6) by the Accredited Entity, signed by the person or persons authorized to do so, within thirty (30) calendar days prior to the date on which the disbursement is requested to be made, which date of disbursement shall not be later than the Closing Date; and</p> <p>(iv) Delivery to the Fund by the Accredited Entity of evidence, satisfactory to the Fund, of the authority of the person or persons authorized to sign each Request for Disbursement and the authenticated specimen signature of each such person.</p>		
<p>FAA Clause 9.02</p> <p>In addition to Clause 18.02 of the AMA, the Accredited Entity covenants that as from the Effective Date of this Agreement it shall:</p> <p>(a) Upon request by the Fund, inform the Fund on the status of the co-financing funds that have been disbursed and applied to the implementation of the Project activities;</p> <p>(b) Within six (6) months after the first disbursement:</p> <p>i. Provide to the Fund, a project-level monitoring and evaluation plan, including gender indicators in the logical framework and refine how lessons will be extracted and shared;</p> <p>ii. Complete capacity assessments of the Executing Entity and the Responsible Parties;</p> <p>iii. Deliver to the Fund a description of the selection criteria to be used for the ecosystem activities (Activity 2.2 specified in the Funding Proposal) in a form and substance satisfactory to the Fund. These criteria should take into consideration the fact that agricultural activities must consist of proper agroforestry systems, which involves planting agricultural crops together with tree crops, bearing in mind the need for high crop diversity and avoiding the use of biocides; and</p> <p>iv. Ensure that preliminary review of interdependence of flood mitigation options is prepared in alignment with the Project preparatory assessments and delivered to the Fund;</p> <p>(c) Taking into consideration the importance for the project of the NGOs as an implementation mechanism for the sub-activities under Activity 2.2 specified in the FP, ensure that a detailed assessment for the viability of such implementation mechanism is prepared and delivered to the fund within 9 months after 1st disbursement. In the event UNDP's findings conclude that such implementation mechanism of the sub-</p>	<p>FAA Clause 9.02</p> <p>(a) Please refer to the financial information reporting parts of the APR for the information on the status of co-finance materialisation (disbursement/application).</p> <p>(b)</p> <p>i. A project-level monitoring and evaluation plan was submitted to the GCF Secretariat on 16/02/2018.</p> <p>ii. Capacity assessments were completed and submitted to the GCF Secretariat on 16/02/2018.</p> <p>iii. Description of the selection criteria was submitted to the GCF Secretariat on 16/02/2018.</p> <p>iv. The preliminary review was prepared in alignment with the project preparatory assessments and submitted to the GCF Secretariat on 16/02/2018.</p> <p>(c) A detailed assessment for the viability of the implementation mechanism was submitted to the GCF Secretariat on 07/06/2018 (please note that the deadline extension request was approved and therefore, the deadline was extended from 16 May 2018 to 30 June 2018).</p> <p>(d) UNDP will provide confirmation to the Fund within the deadline as indicated in the clause.</p> <p>(e) UNDP will ensure that maximum synergies are achieved between the sewerage studies and the drainage master plan studies during the implementation of the project.</p> <p>(f) Adequate measures to ensure that the management of the environmental and social risks are being undertaken during the implementation of the project.</p> <p>(g) The land in which the project will be carried out is government-owned. In the case that the private-owned land is used by the project, letters of consent will be collected.</p>	

<p>activities under activity 2.2 is not viable, any GCF Proceeds that was budgeted for the implementation of those sub-activities may be reallocated by UNDP for other activities of the project, as necessary in coordination with the Executing Entity and the NDA, and upon written approval by the Fund;</p> <p>(d) Confirm to the Fund, within six (6) months after the delivery of the interim independence evaluation report in accordance with schedule 4, that the Executing Entity has undertaken and completed an assessment of its operation and maintenance capacities, including the necessary financial, human and material resource needs for the sustainability of the infrastructure components of the project (river works and drainage systems);</p> <p>(e) Ensure that maximum synergies are achieved between the sewerage studies and the drainage master plan studies carried out under the Project with the view to reduce costs and population disturbance during the execution of works that may be carried out in future projects;</p> <p>(f) Undertake and/or put in place any adequate measures in order to ensure that the management of the environmental and social risks and impacts arising from the Funded Activity complies at all times with the recommendations, requirements and procedures set forth in the Environmental and Social Management Plan (ESMP) and the Social and Environmental Screening, which were provided by the Accredited Entity to the Fund before the Approval Decision; and</p> <p>(g) Obtain or ensure that the Executing Entity shall obtain, all land and rights in respect of land that are required to carry out the Funded Activity and shall promptly furnish to the GCF, upon its request, evidence that such land and rights in respect of the land are available for the purposes of the Funded Activity.</p>		
<p>FAA Clause 9.03 Pursuant to Clause 23.04 of the AMA, the Accredited Entity shall inform the Fund, in the final APR, which steps it intends to take in relation to the durable assets and/or equipment purchased with the GCF Proceeds to implement the Funded Activity.</p>	<p>FAA Clause 9.03 is noted and will be fulfilled during the final APR period.</p>	
<p>Water Resources Management Act 2008 & Water Resources and Management Regulation 2013</p>	<p>MNRE will inform utilities of the need to relocate overhead lines or pipes that would be affected from the construction works. In addition, Aggies Grey's Hotel has been informed of the project and the implication of construction works on current developments on the river bank.</p>	
<p>Environmental Impact Assessment Regulations 2007</p>	<p>MoF and MNRE overseeing works and ensuring that relevant reviews and assessment are put in place when needed.</p>	
<p>Samoa Water Authority (Sewerage and Wastewater Regulations) 2009</p>	<p>SWA and LTA staff have ensured that no land is being adversely affected and that the monitoring equipment is not placed in a sensitive location.</p>	

(3) Provide a report on the progress made in implementing environmental and social management plans (ESMPs) and frameworks (ESMFs) describing achievements, and specifying details outlined in the tables below.

(i) activities implemented during the reporting period, including monitoring	(ii) outputs during the reporting period	(iii) key environmental, social and gender issues, risks and impacts addressed during implementation	(iv) any pending key environmental, social and gender issues needing accredited entity's actions and GCF attention
<p>a) Conducted feasibility study to review interdependence of flood mitigation</p>	<p>a) Interdependence flood study was undertaken in the VCA. Contract is on-going and is due for</p>	<p>a) This consultancy caused negligible environmental impact.</p>	<p>a) NA</p>

	completion in Q1 2019			
b) Establishment of flood protection measures along segments 2, 3 and 4 of the Vaisigano River	b) Construction of segment 2 is in progress	b) Construction adhered ESMF to minimize the impacts. Erosion and sediment control were implemented. The reduction in people's ability to move around was temporary.	b) NA	
c) Implement ecosystem responses upstream for decreased flows during extreme weather events	c) OM for Activity 2.2 submitted and cleared by GCF. Implementation of 2.2 has begun with the community stakeholder programme completed Q4 2018.	c) OM and stakeholder programme outlined strong environmental criteria to reduce risk of impacts.	c) NA	
d) Replacement of Lelata Bridge to accommodate increase flood waters	d) The design and supervision contract for Lelata Bridge has been awarded and geotechnical investigations started in December 2018.	d) in progress	d) NA	
e) Extension of floodwalls at Leone and Lelata Bridges to prevent damage during extreme events	e) The flood walls were extended 40m downstream from Leone Bridge to connect with the existing segment 1 of the riverwall	e) Erosion, sedimentation and noise impacts were addressed with best practise mechanisms by following the ESMF. All contractors have the requirements of the ESMF detailed and enforced in their contracts.	e) NA	
f) Developing a climate resilient Stormwater Master Plan	f) This activity has been combined with the upgrading of the 9 priority sites under one contract.	f) In progress	f) NA	
g) Upgrading drainage systems in nine (9) priority segments and outfalls	g) Apia Waterfront - Construction underway and impacts mitigated by adhering to ESMF.	g) Erosion, sedimentation and noise impacts were addressed with best practise mechanisms by following the ESMF.	g) NA	

Implementation of management plans and programmes

(i) activities implemented during the reporting period	(ii) dates and venues of engagement activities	(iii) information shared with stakeholders	(iv) outputs including issues addressed during the reporting period
Activity 1.1 Interdependence Feasibility Study	September 12 th , 2018 Central Bank Conference Room, CBS Building Apia, Samoa	Questionnaires relating to people's experiences of flooding, their losses, and suggestions for improvement	Responses from questionnaires analysed and will be filtered into subsequent stages of the study
Activity 1.3	October 29 th –		Village representatives presented recommendations and

<p>Community/villages pre-awareness program for the sounds of sirens to provide flooding and other hazard alerts to the communities living along the Vaisigano Area</p> <p>Activity 1.4 Conduct awareness raising campaigns on building practices and designs for at risk communities living along the Vaisigano River</p> <p>Activity 2.2 Implement ecosystem responses upstream for decreased flows during extreme weather events</p> <p>Activity 3.2 Implementation of priority drainage upgrades</p>	<p>November 9th, 2018 for all 24 villages in 10 different venues. Venues included church halls, village homes, school halls and women’s committee houses</p> <p>April 17th-24th 2018, TATTE Convention Centre</p> <p>July 18th -19th, Taumeasina Island Resort August 29th -30th TATTE Convention Centre</p> <p>December 13th, 2018, Apia Protestant Church Hall</p>	<p>Awareness material on the purpose of the sirens, familiarizing them with the 'warning' and 'all clear' siren sounds, how it will be used during a flood or real disaster events and when it will be tested.</p> <p>Pre-planning meetings and deliberations were also held accordingly between all stakeholders</p> <p>Awareness materials on the NBC building practices</p> <p>Discussion and awareness materials regarding the process of development of the OM, and process for 3 programmes under Activity 2.2: EbAEd, CfW and PES.</p> <p>Awareness materials on Drainage requirements and current drainage plans</p>	<p>requests to the program regarding various issues such as the location of sirens, retaining wall, and the review of village disaster plans through the CDCRM program. MNRE and MWTI to consider and deliberate on the recommendations provided by the village communities with the retaining wall</p> <p>Recommendations by village representatives were screened and filtered into finalisation of the NBC</p> <p>The results from these consultations will be used to tailor training and provision of technical expertise during the implementation of activity 2.2</p> <p>Consultations held with community members discussed the challenges of the current drainage plans and necessary changes required and timeframe needed for upgrades</p>
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Implementation of the grievance redress mechanism

(i) description of issues/complaints received during the reporting period	(ii) status of addressing issues/complaints
The project’s Grievance Redress Mechanism has been established. No complaints were received in the reporting period.	None
The VCP PMU has established a redress mechanism in 2018, through the email gcsamoagrievancesandredress@gmail.com , which is available to all stakeholders. During public consultations and community stakeholder meetings the redress mechanism email address is provided.	

4.2 GENDER ACTION PLAN

The VCPs Gender and Social Inclusion Plan (GSIP) was finalised in this reporting period and approved by GCF.

The GSIP provides entry points for gender-responsive and socially inclusive actions to be executed through relevant activity areas of the VCP. In addition, specific indicators were also proposed to measure and track progress on these actions at the activity level. Information for these indicators is collected simultaneously with output level monitoring and analysed against questions to assess how gender-responsive and responsive to vulnerability the VCP is, with information on gaps and challenges used to improve VCP planning and management. Table 4.2.1 details both qualitative and quantitative data on the VCPs efforts in implementing gender-responsive and socially inclusive actions in this reporting period.

The focus of the VCP is to reinforce the accountability of the VCP activities towards the beneficiaries, those who are most vulnerable, with an emphasis of ensuring the activities, while improving overall resilience in the long term, do no harm in the short term. In this respect, it is critical to the VCP that community consultations continue to focus not simply on a) the equitable participation of men and women in the community but targeting the households most impacted by physical VCP activities; b) obtain approvals for VCP activities from the affected communities and ensure individual households are aware of mechanisms through which they can communicate any concerns or questions during implementation; and c) communities and most affected households are aware of any negative impacts that VCP activities may have in the short term (i.e.: Disrupted households agriculture for consumption, more difficult access to markets, schools or health care) and that village committees have a plan to help them cope with them.

In this reporting period, the VCP used the mechanism established through the MWCSO to reach the community and sought to approach the community on many levels i.e. schools, women's committees, church groups, youth members and people with disability have all been prioritised during the planning and implementation of VCP consultations and community activities.

Several activities detailed in section 4.2.1 require an analysis to be undertaken to differentiate roles and responsibilities, needs, and knowledge of men, women, youth members, elderly and disabled in responding to disasters.

4.2.1 PROGRESS ON IMPLEMENTING THE VCP-LEVEL GENDER ACTION PLAN SUBMITTED WITH THE FUNDING PROPOSAL.

Objective	Actions	Indicator	Targets	Budget (USD)	Responsible Institutions	Report on Annual Progress
Output 1: Assessments and mechanisms in place for an integrated approach to reduce vulnerability towards flood related risks						
Activity 1.1: Strengthen capacities and information requirements to pursue an integrated programme approach to flood management.	Ensure equitable participation of men and women, youth, elderly and people living with disability in community consultations during the preparation of the feasibility studies. Engage pro-actively with MWCSO in the preparation of the workshops to ensure suitable	<ul style="list-style-type: none"> Number of men and women participating in consultations and workshops in the preparation of the feasibility studies Gender and social inclusion concerns identified during the consultations 	At least 500 people in the targeted communities participate in consultations in preparation for feasibility studies	20,000	MOF MWCSO	Preliminary consultation with the community was held in Q3 by consultant in preparation of the Interdependence Feasibility Study. 30 community representatives were present in the initial consultation that captured data regarding vulnerable peoples' experiences of flooding, their losses, and



	<p>participants are identified ahead of time, and consultations are pitched in the most appropriate language Consider options to strengthen livelihoods in the formulation of the feasibility studies</p>	<p>are responded to in the studies</p> <ul style="list-style-type: none"> • Sex and age disaggregated data 				<p>suggestions for improvement. The responses are still being analysed, although an initial review reveals that the experiences were common, and some suggestion made included improved evacuation routes particularly taking into consideration disabled and vulnerable members. Further detailed assessment of the community feedback will be filtered into the subsequent stages of the study.</p> <p>Further consultations for other studies will be held in the next reporting period.</p>
<p>Activity 1.2: Establish health surveillance systems to track and manage flood related health issues</p>	<p>Undertake analysis of the differentiated roles and responsibilities, needs and knowledge of men and women, youth, elderly and people living with disability in responding disasters Use this to inform the training material and packages developed for health practitioners responding to flood emergencies under Activity 1.2.2 Use this to inform the training material and packages developed for village councils to prepare for evacuation flood victims under Activity 1.2.3</p>	<ul style="list-style-type: none"> • Evidence of gender and social inclusion analysis of the VCA/VRC communities being utilized in training material developed for health practitioners and village councils 	<p>Analysis at initial consultations informs training material and packages developed for village councils to prepare for evacuation of flood victims</p>	<p>10,000</p>	<p>MOH/MOH/MWCS</p>	<p>MOH conducted awareness consultations relating to flood EWS. The consultation discussed topics on women's health, gender-based violence, and dealing with PWD in response to dealing with flooding and natural disasters. The villages provided invaluable feedback for tailoring further training for people with special needs and those suffering from non-communicable diseases.</p>
<p>Activity 1.3: Expand EWS coverage to provide flooding alerts in Apia</p>	<p>Use the analysis conducted under Activity 1.2 to inform planning and implementation of Activity 1.3.3 on awareness raising</p>	<ul style="list-style-type: none"> • Evidence of gender and social inclusion analysis being utilized to tailor the EWS to at risk populations 	<p>The EWS takes into consideration gender and social inclusion plans</p>	<p>180,000</p>	<p>MNRE/DMO/MOH</p>	<p>Initial consultations were conducted by DMO this reporting period in collaboration with MOH for the purpose of raising awareness to the village</p>

	with at risk populations					<p>communities living along the VCA/VRC of the purpose of the sirens, familiarize with the 'warning' and 'all clear' siren sounds, how it will be used during a flood or real disaster events and when it will be tested.</p> <p>The participants included various organizations of each village which included, church ministers, <i>alii ma faipule, faletua ma tausī, saoa ma tamaitai</i>, untitled men and women, youth, children, and PWD.</p>
Activity 1.4: Conduct awareness raising campaigns on building practices and designs for at risk communities living along the Vaisigano river	<p>Ensure that manuals developed under Activity 1.4.1 include Chapter D of the Building Code on accessibility for people living with disability. Ensure that the exhibition planned for Activity 1.4.2 reflects the diversity of needs in a community, including for women, men, people living with disability and young people. Include requirements on representation of gender equality, disability, elderly and youth access in the MOUs with SUNGO and builders' associations</p>	<ul style="list-style-type: none"> • Number of manuals with the needs of people living with disability are clearly and accurately reflected • Evidence of gender, disability, age and youth inclusion in model exhibitions • Evidence of gender, disability, age and youth concerns included in MOUs 	Manuals developed take into consideration building code sections which reflect needs of people living with disability and other gender concerns	300,000	MWTI MNRE/PUMA SUNGO Builders Associations	<p>Initial community consultations were held in Q2-Q3 with representatives from Upolu, Savaii and Manono to commence the translation of the NBC. Following Cabinet approval of the revised NBC, a public awareness campaign was carried out advising the general public and members of the construction industry of the revisions to the NBC with a specific emphasis on disaster resilience, climate change and accessibility. Throughout the development and revisions of the National Building Code, representatives for people living with disability have been consulted.</p>
Objective	Action	Indicator	Targets	Budget	Responsible Institutions	Report on Annual Progress
Output 2: Infrastructures in the Vaisigano catchment are flood-proofed to increase resilience to negative effects of excessive water						
Activity 2.1: Channelization of segment 2 and 3 of the Vaisigano river streambed to accommodate	Ensure equitable participation of men and women, youth, elderly and people living with disability in	<ul style="list-style-type: none"> • Number of men and women participating in • consultations • Evidence for gender and 	At least 3,000 men and women participate in consultations prior to	20,000	MOF MWCS D	No consultations were held in this reporting period for channelization works under Activity 2.1.



<p>increased water flow and decrease flood risks</p>	<p>community consultations Include requirement for the training material for maintenance workers under Activity 2.1.3, for gender and social inclusion considerations to be addressed wherever possible Set targets for young people and women to be achieved under the contracting scheme in Activity 2.1.4</p>	<p>social inclusion requirements and ToRs for the development and delivery of training material for maintenance workers</p> <ul style="list-style-type: none"> • Numbers of women and young people employed through the contracting scheme 	<p>channelization works</p> <p>Gender and social inclusion requirements are taken into consideration for any training and awareness material</p> <p>At least 200 women and young people are employed through the contracting scheme</p>			<p>Planned activities in the next reporting period include consultations with members of the community affected by channelization works and other relevant organisations e.g. Nuanua o le Alofa (NOLA) (Disability Advocacy Organisation-DAO).</p> <p>Consultations will also be held to better inform the RPs on how to proceed with implementation in preparation for the signing of an MOU with community members. Key vulnerable groups are to be consulted.</p>
<p>Activity 2.2: Implement ecosystem responses upstream for decreased flows during extreme weather events</p>	<p>Ensure equitable participation of men and women, youth, elderly and people living with disability in consultations to determine options for flood management activities under Activity 2.2.1 Ensure equitable participation of men and women, youth, elderly and people living with disability in the development of the community-based adaptation strategy for ecosystem based alternative income generating activities under Activity 2.2.4 Set targets for women, young people, PWD, and older people in the income generating activities and business incubation activities identified under Activity 2.2.5 Set targets for women, young people, PWD, and older people in the</p>	<ul style="list-style-type: none"> • Number of men and women, youth, elderly and people living with disability participating in consultations • Number of women, young people, people living with disability and elderly people participating in income generating activities • Number of women, young people, PWD and elderly people benefiting from the CFW programme. 	<p>At least 400 men, women and other vulnerable groups participating in consultations</p> <p>At least 1,000 women, young people, people living with disability and elderly people participating in income generating activities and schemes under activity 2.2</p>	<p>500,000</p>	<p>MOF MWCSO MNRE</p>	<p>In this reporting period, consultations were held initially with responsible parties and organisations to discuss the 3 programmes under Activity 2.2 in the development of the OM. EbA community consultations conducted in Q3-Q4 resulted with a total combined of 472 people (289 men and 183 women) which is similar ratios to the 2016 census. The consultation had a strong focus on women leading income generating activities. Consultations also included participatory mapping exercises to tailor technical assistance to specific interest groups i.e. youth, men and women, and PWD depending on their aspirations and needs.</p>



	provision of CfW activities under Activity 2.2.6					
Activity 2.3: Construction upgrade of Lelata Bridge to accommodate increase flood waters	Ensure equitable participation of men and women, youth, elderly and PWD in any community consultations	<ul style="list-style-type: none"> Number of men and women, youth, elderly and people living with disability participating in consultations 	At least 200 men and women, youth, elderly and PWD participate in consultations	20,000	MWTI/LTA	No consultations have been conducted for the construction of the Lelata Bridge in this reporting period however, planned future consultations include discussions with the community on safety access for PWD, women and children when crossing the bridge
Activity 2.4: Extension of floodwalls at Leone Bridge to prevent damage during extreme events	Ensure equitable participation of men and women, youth, elderly and PWD in any community consultations	<ul style="list-style-type: none"> Number of men and women, youth, elderly and PWD participating in consultations 	At least 200 men and women, youth, elderly and PWD participate in consultations	20,000	MWTI/LTA	No consultations have been conducted in this reporting period for the extension of floodwalls at Leone Bridge to prevent damage during extreme events.
Objective	Action	Indicator	Targets	Budget	Responsible Institutions	Report on Annual Progress
Output 3: Drainage in downstream areas upgraded for increased regulation of water flows						
Activity 3.1: Develop a climate resilient Stormwater Master Plan	Ensure equitable participation of men and women, youth, elderly and PWD in any community consultations as set out in Activity 3.1.3 Set targets for women, young people, PWD, and older people in paid work emanating from implementation of the Master Plan as set out in Activity 3.1.5	<ul style="list-style-type: none"> Number of men and women, youth, elderly and PWD participating in consultations 	At least 200 men and women, youth, elderly and PWD participate in consultations	50,000	MWTI MNRE/PUMA/ LTA	No consultations have been conducted in this reporting period for the review of the current Climate Resilient Stormwater Master Plan
Activity 3.2: Upgrade drainage systems and outfalls in hazard areas to accommodate flooding events	Ensure equitable participation of men and women, youth, elderly and PWD in any community consultations	<ul style="list-style-type: none"> Number of men and women, youth, elderly and PWD participating in consultations 	At least 200 men and women, youth, elderly and PWD participate in consultations	50,000	MWTI MNRE/PUMA/ LTA	A community consultation was held with villages in segment 1 of the VC in Q4 to discuss 1. Drainage requirements 2. Current drainage plans, 3. Challenges of the current drainage plan

						and 4. Changes required, and timeframe needed for up-grades
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4.3 PLANNED ACTIVITIES ON ENVIRONMENTAL AND SOCIAL SAFEGUARDS

Activities to be implemented per the ESMP during 2019 will include, but not be limited to:

- Ensuring the river bank, drainage and other construction and ecosystem works do not cause environmental and social impacts through detailed design, scheduling and supervision of activities;
- Through the CfW and PES programmes under Activity 2.2, improve upstream sediment retention through revegetation of the catchment thus increasing water quality both downstream and entering the coastal lagoon;
- Further construction of the wall will reduce the impact of flooding and thus the loss of assets and social disruption from overtopping of the VR;
- Procurement of warning system gauges and further training with community members in the target villages will enhance the existing EWS that ensures adequate measures are undertaken prior to any rainfall and flood event;
- The translation of the NBC and its socialisation.
- The implementation of the TMP for disaster risk reduction is to encourage good planning and management practices for the continuous improvement of environmental safeguards.
- Every contractor is required to adhere to the sediment and waste control requirements minimise or prevent the pollution of land, air and water pollution;
- Every contractor is required to comply with all applicable laws, regulations and standards for the protection of the environment and adopt the best practicable means available to prevent and minimise environmental impact;
- Under the ESMP a high-level monitoring schedule for ESS has been developed by each RP and will be further refined as each activity is implemented as implementation schedule. Monitoring of the ESS will also be integrated into the broader monitoring and reporting.
- All staff and contractors hired will continue to be briefed on the ESS obligations by MNRE and UNDP.

Majority of the environmental impacts identified as a result of the VCP is anticipated during the construction phase which is expected to commence in 2019 and the ESMP will be consistently followed to ensure mitigation of the potential environmental and social impacts.

The VCP PB/PSC has considered and endorsed the offer by UNDP to source under a UNDP detailed assignment for a period of three months a social and environmental safeguards specialist to assist the VCP in strengthening the implementation of the ESS /ESM policies and procedures for the VCP and in place for the GoS– the anticipated start date of the assignment will be in Q2 2019. The PMU is recruiting an NSS as part of the Project Management structure in the ProDoc.

4.4 PLANNED ACTIVITIES ON GENDER ELEMENTS

VCP activities to be implemented in the next reporting period which target individuals from vulnerable households, particularly women, children, youth and PWD which will prioritize a ‘gender responsive approach’ which ensures the needs, roles, structural constraints of women and men are considered (and how these intersect with dimensions such as age, class, ability). VCP

The planned activities on gender elements will ensure consistent and timely consultations with vulnerable groups simultaneous to implementation. Analysis at all initial consultations held are expected to inform baselines for the VCPs efforts in implementing gender-responsive and socially inclusive actions.

Some of these actions include the following to be implemented in the next reporting period:

Activity 1.1 Further detailed assessment of the community feedback will be filtered into the subsequent stages of the interdependence study which informs most VCP activities. The feedback received provides details regarding vulnerable peoples’ experiences of flooding, their losses, and suggestions for improvement. The responses are still being analysed, although an initial review reveals that the experiences were common, and some suggestions made included improved evacuation routes particularly taking into consideration disabled and vulnerable members. It is anticipated that all other feasibility studies factor in community feedback to inform future actions ensuring specific consideration of vulnerable community groups.

Activity 1.2 Consultations initially held in this reporting period will inform the development of awareness programs, training material and packages for village councils and health practitioners in the next reporting period in preparation for the evacuation of flood victims during emergencies. Invaluable feedback from the community is being used for tailoring further training for people with special needs and those suffering from non-communicable diseases.

Activity 1.3 The ESN/EWS takes into consideration gender and social inclusion plans by ensuring an equal participation of men and women and vulnerable groups during consultations and awareness programs on the EWS. Future consultations and training will inform the at-risk communities of the EWS and how to respond during emergencies.

Activity 1.4 Once the NBC is successfully translated, it will be made available to the public in the form of simplified manual/handbooks which will have appropriate gender (e.g. access, personal safety, bathrooms) and disability requirements that registered builders will be expected to comply with. Gender and disability requirements will also be factored into the design of the climate resilient model houses commencing in 2019.

Activity 2.1 Planned activities in the next reporting period include consultations with members of the community affected by channelization works and other relevant organisations e.g. NOLA and DAO. Consultations will also be held to inform RPs on how to proceed with implementation particularly in preparation for the signing of relevant MOUs with members of the community. Key vulnerable groups are expected to be consulted throughout the design and construction of planned works.

Activity 2.2 The VCP continues its efforts to foster close working relationships with key NGO’s and CSO’s representing vulnerable members of the population regarding the EbA activities commencing in the next reporting period. The VCP will ensure that those participating are not doing so at the expense of their regular income generating activities, and that participants receive some support on how best to manage their short-term increased cash flow so as not to make poor financial decisions and investments. Moreover, while gender equality is an important aspect of development and increased resilience, the VCP cannot ignore the reality that men and women in Samoa have different roles and responsibilities within the home and community that will not change within the life of the VCP. As such, women participating in income generating activities through the VCP will be supported and a plan for them will be made available to ensure that they will still be able to undertake activities such as child care, home based agriculture and food preparation. Village committees and Women’s Groups will be consulted on how best to approach these issues.

Activity 2.3 Consultations with the vulnerable community paying close attention to women, children and PWD will be held in the next reporting period following the completion of the Interdependence Study that informs the constitutions of the Lelata Bridge. The consultations will be conducted to discuss the needs of these vulnerable groups particularly to do with access across the bridge.

Activity 2.4 Planned activities in the next reporting period include consultations with members of the community and other relevant organisations e.g. NOLA and DAO that will be affected by the construction of floodwalls along Leone bridge and area.

Activity 3.1 The VCP will ensure that an equitable number of men, women and other vulnerable groups participate in any relevant consultations during the review of the current Stormwater Masterplan.

Activity 3.2 Future consultations regarding the review of drainage requirements and upgrading will ensure an equitable number of men, women and another vulnerable group's participating.

As agreed during the VCP inception phase, although risks are moderate, given the importance of assuring safeguards compliance, an NSS (environmental, social and gender) will be hired for the duration of the VCP. Key components of their work will be to routinely review compliance with set safeguards criterion and to report against the VCPs gender action plan (This will include the delivery and implementation of the gender action plan).

As per VCP ProDoc, a total of \$4,000 USD has been allocated annually (\$24,000 USD in total) for the **Safeguards Specialist – Environment, Social and Gender** to monitor of the gender action plan.

SECTION 5: ANNEXES

Annex 1. [Updated Implementation Timetable for the Funded Activity](#)

Annex 2. Accredited Entity compliance reports (self-assessment reports¹⁵, report on actions pursuant to Clause 18.02, if applicable¹⁶).

SECTION 6: ATTACHMENTS

Attachment 1. Unaudited/Audited financial statements (as required by FAA).

Unaudited financial statement under preparation and will be submitted end March 2019.

(If available. If not submitted, indicate date of submission.)

Attachment 2. Interim/Final evaluation report (as required by FAA).

(If available. If not submitted, indicate date of submission.)

Other Attachments (if any). Such as additional budget-related information, loan repayment schedules to GCF (interest/principal), equity investment schedules, other related reports relevant to the Funded Activity, statements of capital account, valuation reports, credit guarantee agreements, investor reports, and others, as specified in the relevant legal agreements (e.g. Funded Activity Agreement, Shareholders Agreement)

¹⁵ In accordance with the Monitoring and Accountability Framework, a self-assessment of its compliance, in accordance with Clause 13.01 of the Accreditation Master Agreement, with the Fiduciary Principles and Standards, ESS and Gender Policy.

¹⁶ Only applicable to International Accredited Entities. In accordance with the Monitoring and Accountability Framework, a report on its actions carried out or planned to be carried out pursuant to Clause 18.02 of the Accreditation Master Agreement.