



URBAN WATER SUPPLY AND SANITATION SECTOR PROJECT (UWSSSP)

Solomon Islands Water Authority

Quarterly Progress Report Q4 2023

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ABBREVIATIONS

ADB	Asian Development Bank
AP	Affected Person
BER	Bid Evaluation Report
BoQ	Bill of Quantity
CAC	Community Advisory Committee
CCECC	China Civil Engineering Construction Company Co Ltd
CESMP	Construction Environmental and Social Management Plan
CMO	National Catchment Management Officer
CMS	International Catchment Management Specialist
CoC	Code of Conduct
CSO	Community Service Obligation
DCA	Development Consent Agreement
DDR	Due Diligence Report
DFAT	Australian Department of Foreign Affairs and Trade
DLP	Defects Liability Period
EA	Executing Agency (Solomon Islands Government through the Ministry of Finance and Treasury)
EIS	Environmental Impact Statement
ERP	Enterprise Resource Planning
ESMP	Environmental and Social Management Plan
EU	European Union
FFA	Financing Framework Agreement
FSM	Faecal Sludge Management
GAP	Gender Action Plan
GBV	Gender-based violence
GEF	Global Environment Fund
GIS	Geographic Information System
GP	Guadalcanal Province
H1	First half of year - January to June (inclusive)
H2	Second half of year - July to December (inclusive)
HCC	Honiara City Council
HCD	Human Centred Design Workshop
HDPE	High Density Polyethylene (pipes, and other components)

HNWS	Honiara Water Supply
HNWW	Honiara Wastewater
IA	Implementing Agency (Solomon Water)
IEE	Initial Environmental Examination
IR	Involuntary Resettlement
JSA	Job Safety Assessment
KGVI	King George VI School, Honiara
LARP	Land Acquisition & Resettlement Plan
LDCF	Least Developed Countries Fund
LLSI	Live and Learn Solomon Islands
M&E	Monitoring & Evaluation
MAL	Ministry of Agriculture and Livestock
MCA	Multi-Criteria Analysis
MECDM	Ministry of Environment, Climate-Change, Disaster Management & Meteorology
MHMS	Ministry of Health & Medical Services
MOU	Memorandum of Understanding
NGO	Non-Government Organisation
NRH	National Referral Hospital
PAM	ADB Project Administration Manual
PE	Polyethylene
PER	Public Environmental Report
PES	Payments for Ecosystem Services
PISI	Plan International Solomon Islands
PMEF	Project Monitoring and Evaluation Framework
PMU	Project Management Unit
PPE	Personal Protective Equipment
PRF	Project Readiness Financing Grant
PS	Pump Station
Q1	First Quarter of year
Q2	Second Quarter of year
Q3	Third Quarter of year
Q4	Fourth Quarter of year
REOI	Request for Expressions of Interest
RFP	Request for Proposals

RSA	Regional Safeguard Advisor, World Bank
SCADA	Supervisory Control and Data Acquisition
SDA	Seventh Day Adventist
SIG	Solomon Islands Government
SIPA	Solomon Islands Port Authority
SMP	Contractor Safety Management Plan
SMR	Semi-Annual Safeguards Monitoring Report
SSEC	South Seas Evangelical Church
SW	Solomon Water
TMP	traffic Management Plan
TOR	Terms of Reference
UNICEF	United Nations Children's Fund
USD	United States Dollars
UWSSSP	Urban Water Supply and Sanitation Sector Project
UXO	Unexploded Ordnance
WASH	Water, Sanitation and Hygiene
WB	World Bank
WinS	WASH in Schools
WTP	Water Treatment Plant

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1 INTRODUCTION

1.1 Project Summary

The Solomon Islands Urban Water Supply and Sanitation Sector Project (UWSSSP) will improve access to safe water and improve sanitation in urban and peri-urban areas of Solomon Islands. The project adopts a sector approach with the objective of developing sustainable, inclusive, and climate resilient water supply and improved sanitation in the greater Honiara area, Auki, Gizo, Noro, Munda and Tulagi. The project is implementing high priority components following the government's water and sanitation sector plan to increase access to piped water supply and sanitation services, especially among poor households; reduce reliance on groundwater and rainwater harvest and ensure more efficient use of water. The project will also enhance hygiene awareness, promote water conservation and improve faecal sludge management.

There are five main project components:-

- Component 1 – Secure and safe urban water supplies;
- Component 2 – Effective, efficient and safe urban sanitation services;
- Component 3 – Enhanced awareness of good hygiene and water issues and sustained improved hygiene behaviour;
- Component 4 – Ensure SW is financially and technically sustainable;
- Component 5 – Management of Honiara's watershed areas strengthened to build resilience to climate change.

1.2 Quarterly Progress Report Achievements

This is the thirteenth Quarterly Progress Report and covers the fourth quarter (Q4) of 2023, 1st October through 31st December.

The progress towards achieving project objectives in Q4 2023 was less than had been expected, but significant nonetheless. It is pleasing to report:

- HNWS Water Reservoirs – New Concrete Tanks at Panatina, Tasahe and Titinge
 - Contract awarded to Pacific Engineering Projects Ion Exchange JV for USD 7,105,695 in April 2022. Intended Completion Date 30th November 2023.
 - Demolition completed of old steel tanks at Panatina and Tasahe and foundation preparations for new tanks also substantially completed at those two sites. Reinforcement bar placement and formwork for tank base completed at Tasahe. Site preparation and earthworks largely completed at Titinge and steel placement ongoing for base slab and tank walls.
- HNWS Trunk Mains – Construct 11km of Trunk Water Mains in Honiara
 - Contract awarded to Pacific Engineering Projects Ltd for USD 7,781,80 in May 2022. Intended Completion Date 18th December 2023.

- Contract preliminaries (eg. insurance, limited site office facilities, ordering materials) completed and some permanent works were completed during the reporting period. Some 1.7km of pipe has been laid at Panatina Ridge, Ranadi and Tanakake Road.
- Kongulai Water Treatment Plant (WTP) – Build New WTP and 1km Pipeline
 - Contract awarded to Rean for USD 15,646,656 with a start date of 5th May 2022. Intended Completion Date 29th June 2023.
 - Works partially complete at 13th Dec 2023, Contractor Site presence limited to security/maintenance personnel. .
 - Throughout Q4 the contractor continued to report design progress, endeavoured to source CAR insurance to satisfy contract requirements and maintained the site, site offices and sediment controls.
- Honiara Wastewater Ranadi Rd (Ela Motors) to Goodwood Outfall Sewer Works – 1.2km of Sewer Pipes (DN200 PVC to DN400 HDPE) and Associated Manholes and Pump Station.
 - Contract awarded to Pacific Engineering Projects Ltd (PEP) on 4th October 2022 for USD 6,044,066. Intended Completion date was 28th October 2023.
 - Offshore materials and equipment procurement is now 100% with the arrival of all the civil, structural, mechanical and electrical items for the pump station in Q4 2024.
 - By December 2023 the contractor had installed some 140m of trunk sewer.



Figure 1 Ranadi-Goodwood - Potholing to expose PVC pipe encroachment on sewer alignment (Photo 13/12/23)

- Contractor is however behind schedule and project completion will likely be September 2024.
- Provincial Water Supply (WS) Upgrades (Noro, Munda, Gizo and Tulagi)
 - Noro WS Upgrade was advertised for tender in early July and bids closed on 11th September 2023. The BER was approved by SW Board

on 22nd November 2023 with a No Objection received from ADB on 11th January 2024. A Letter of Acceptance was issued to the successful bidder (CCB Envico Pty Ltd of West Melbourne, VIC, Australia) on 25th January 2024. There is an ongoing discussion with land claimants which will defer commencement of works until around July 2024 however the claimants support the project and the claim questions only to whom lease payments for SW's three existing operational sites should be paid.

- Under component 5 Watershed Protection (Global Environment Fund (GEF) financed), water quality monitoring equipment was maintained and data collected at two sites (Kongulai and Kombito sources). Although the consultant (UQ) has completed its field work and reporting, the monitoring and telemetry equipment remains in place and functioning despite some attrition, and is proving useful to SW's Operations staff. PMU is investigating opportunities to replace the current cloud based reporting portal given its agreement with University of Queensland ended in Q4 2023.
- Coordination between key stakeholders for catchment management was improved through site visits, consultations/workshops and cooperation in various fields of work (nursery production and settlement expansion etc.) Vetiver grass planting is now being increasingly used for erosion protection at SW catchments and other sites (recently at Tuvaruhu Yard, Kongulai Catchment and Rove Source)
- An international consultant (Nakau) and a local NGO (Live & Learn) continued work to develop a PES project and a strategy for income generation for customary land owners of the target catchments. Field work and reporting was undertaken for the development of PES options, PES selection criteria, forest surveys and preliminary carbon analysis.
- The PMU safeguards team carried out refresher training with all the Contractors' safeguards officers and key staff in early October with the aim to ensure that everyone continue to effectively drive compliance with the safeguard requirements indicated in their respective CESMPs.

UWSSSP IMPLEMENTATION

The financing to the Solomon Islands for the UWSSSP was approved by the project partners in 2019. The approved financing includes:

- (i) a World Bank (WB) credit (concessional loan) of USD 15.0m which was approved on 16th May 2019;
- (ii) a grant of EUR 18.0m (USD 20.347m equivalent) from the European Union (EU) which was approved on 8th July 2019 and is to be administered by Asian Development Bank (ADB). The grant conditions were satisfied and it was declared effective by ADB on 28th April 2023, some 3 years and 7 months after it was signed;
- (iii) a grant of USD 9m (ADB), a concessional loan (COL) of USD 28.0m from ADB which was approved on 25th September 2019, a Subsidiary Grant of USD 4.6m signed on 25th January 2022; and,
- (iv) USD 9m in-kind contributions from Solomon Water (SW).

Additional financing of USD15m (made up of USD 13.00m loan and USD 2.00m grant) has been committed by WB and is on track to become effective in Q1 of 2024. Further additional financing in the form of a USD 25.00m grant has been indicated by ADB with effectiveness currently targeted for mid-2024.

The Solomon Islands Government (SIG) is contributing USD 11.473 million equivalent through the exemption of taxes and duties.

The effectiveness of the EU grant declared on 28th April 2023 was a major step forward. It enabled the first (Noro) of SW's three planned water supply contracts to go to market in Q3 of 2023.

The Solomon Islands Government (SIG) is the Executing Agency (EA) of the project, under the Ministry of Finance and Treasury. SW is the Implementing Agency (IA) and plays an instrumental role in coordinating the provision of financing from various sources and is responsible for the overall management, coordination and implementation of the project. Within SW, a Project Management Unit (PMU) is established to oversee and coordinate day-to-day activities of project implementation and make disbursements.

The UWSSSP project is being implemented over seven years and is scheduled to be completed by 31 December 2028.

1.3 Project Readiness Financing Grant (PRF) Component

1.3.1 Implementation Progress

The ADB Project Readiness Financing Grant (PRF) mechanism had been funding a USD 3.0m grant (outside of the UWSSSP) to undertake detailed engineering design and bid document preparation as well as support specialist inputs in the PMU during the period prior to effectiveness. The PRF consists of 2 parts being Part 1 – Detailed Engineering Design and Part 2 – Specialist Inputs.

1.3.1.1 PRF Part 1 – Detailed Engineering Design

Suez Consulting (SAFEGE) was contracted to carry out the detailed engineering design for Honiara Water Supply and Wastewater, and Provincial Water Supply. The Project Readiness Financing (PRF) design project was completed and the contract expired on 31st December 2022. The total contract value (excluding contingency but including an additional amount of USD 450,000 for agreed extra work) is USD 4,222,811. The outstanding balance was disbursed with one final payment in Q4 of 2023.

The scope for the detailed design work was split into five (5) parts:-

- (i) Honiara Water Supply (HNWS) Trunk Mains
- (ii) Honiara Water Supply Service Reservoirs
- (iii) Honiara Wastewater (HNWW) Trunk Sewers and Pump Stations;
- (iv) Honiara Wastewater Outfalls and Outfall Pumps Stations; and,
- (v) Provincial Water Supplies (Noro and Tulagi - upgrades; Gizo and Munda - new systems).

Table 2-1 below indicates key information for each of the PRF sub-projects.

Table 1-1 PRF delivery schedule and cost estimates

Project	Status as at 31st December 2023	Contract Duration (Award to Completion) ⁽¹⁾	Construction Cost Estimate USD ⁽²⁾
Honiara Water Supply – Trunk Mains	Construction period	18 months (16 Jun '22 - 18 Dec '23) Delayed	7,781,780
Honiara Water Supply – Service Reservoirs (Re-bid)	Construction period	18 months (3 May '22 – 4 Nov '23) Delayed	7,105,695
Honiara Wastewater – Ranadi Rd to Goodwood Outfall Sewer Works	Construction Period	12 months (Oct '22 – Oct '23) Delayed	6,044,067
Honiara Wastewater – National Referral Hospital (NRH) Sewer Works and Outfall	Deferred until additional funding is secured ⁽⁶⁾	TBC	13,200,000
Honiara Wastewater – Ranadi Sewer Works and Outfall ^(4 & 5)	Expected tender release June '24 ^(1 & 6)	24 months (Dec '24 – Nov '26)	23,800,000
Provincial Water Supply (PWS): Noro ^(3 & 4)	Award Letter Issued Jan '24	24 months (Aug '24 – Jun '26)	6,000,000
Provincial Water Supply (PWS): Tulagi	Deferred pending re-design	TBC	4,400,000
Provincial Water Supply: Gizo ^(3 & 4)	Tender deferred pending water source redesign	18 months (Nov '24 – Apr '26)	9,400,000
Provincial Water Supply (PWS): Munda	Deferred pending water source redesign.	TBC	5,200,000

⁽¹⁾ The timing for finalised bid documents is the end of the stated month and includes no-objection from development partners. The period between finalised bid documents and contract award is assumed to be four (4) calendar months (two (2) months for bidding and two (2) months for evaluation & award).

⁽²⁾ Construction cost estimates include escalation for foreseeable factors.

⁽³⁾ Sub-projects are planned to be packaged as separate construction tenders, however two or more may be later combined.

⁽⁴⁾ Honiara wastewater sub-projects and provincial water supply sub-projects bidding had been pending the EU-ADB co-financing agreement which was finalised on 28th April 2023.

⁽⁵⁾ Excludes the cost of Honiara Wastewater – Ranadi Roundabout to Goodwood Outfall Sewer Works, and Fisheries to Telekom Sewer Works (funded by SIG).

⁽⁶⁾ EIS has been completed and development consent application was granted by MECDM in April 2023. However further development of this subproject will remain on hold unless further additional financing is secured beyond the levels currently committed.

PRF grant expiry – The extended ADB grant expired on 31 December 2022. A dispute with Suez over claims for extra work has been settled and final payment was made in December 2023.

1.3.1.2 PRF Part 2 – Specialist Inputs

These were completed in January 2021 with completion of the Strategic Projects Management Advisor's (Mark Waite's) contracted time.

2 PROGRESS OF UWSSSP SPECIFIC PROJECT COMPONENTS

One-page summaries of five ongoing UWSSSP physical works contracts are shown in .

2.1 Component 1 – Secure and Safe Urban Water Supplies

2.1.1 Honiara Water Supply Improvement

2.1.1.1 Cash Water Change out and Augmentation

Trials for prepaid meters from Lesira-Teq, a South Africa-based supplier, have been substantially completed and proved fit for SW use. A 3-year bulk order purchase of 6,000 prepaid meters (approx USD 1.0m) is planned, with initial purchase (2,000 meters) and operational roll out anticipated from Q2 of 2024 onwards. UWSSSP will also finance purchase of 200 User Interface Units (UIUs) for the about-to-be superseded A D Riley cash water meters. Despite the high failure rate of A D Riley meters and UIUs the procurement of additional UIUs will extend the functionality of, and hence revenue from, SW's installed customer base of AD Riley meters.

2.1.2 Kongulai Water Treatment Plant & Pipeline Project

Accepted Contract Amount: USD 15,646,656 (construction)

Construction Period: 14 months (60 weeks)

This UWSSSP sub-project has three components: (i) Construction of new Kongulai Water Treatment Plant (WTP); (ii) Operation of the WTP for 12 months, with an option for a further 12 months; and, (iii) Construction of Kongulai to Tasahe Pumping Main renewal (1km). The contract was awarded to REAN-PCS Joint Venture of India in April with a Start Date of 5th May 2022 and the Intended Completion Date of 29th June 2023.



Figure 2 Sediment Pond Works at Kongulai WTP Site (Photo 16/11/23)

The contractor has progressed most preparatory items, including site office and sediment controls, and commenced site earthworks.



Figure 3 Excavation Works at Kongulai WTP Site (Photo 17/11/23)

Works were partially complete at 13th Dec 2023, and contractor site presence was limited to security/maintenance personnel. Scope of Works remain unamended and an external determinative forum is deliberating circumstances.

2.1.3 Honiara Network Water Supply (HNWS) – Trunk Mains

Accepted Contract Amount: USD 7,781,779.65 (construction)

Construction Period: 18 months

The project has three components:-

- (i) Kongulai to White River to Rove Trunk Main;
- (ii) East Kola Service Reservoir (SR) to Naha Trunk Main; and,
- (iii) Panatina SR to Burns Creek Trunk Main.

The project was awarded to Pacific Engineering Projects Ltd (PEP) with a Start Date of 16th June 2022 and with construction originally intended to be completed by 18th December 2023 although this will not now be achieved. PEP's Contractor's Representative arrived in Honiara in July 2022 and materials and equipment mobilised. However progress of physical works has been poor and the contract is estimated to be some 12 months behind schedule. No pipelines were installed during Q4, although the work sites around Panatina, Ranadi and East Kola were shutdown so as not to impact traffic accessing the Pacific Games Stadium and other sports venues.



Figure 4 Trunk Mains – Trenching at East Kola (Photo 6/11/23)

The ADB-funded 4-lane road upgrade project from Town Ground to White River was awarded to China Civil Engineering Construction Company Co Ltd (CCECC) and commenced works in Q2 of 2023. Due to PEP's late start SW's contractor now has to schedule its works so as not to conflict with CCECC's activities.

MID's requests for SW to revise much of the water main alignments within public roads, particularly Panatina to Burns Creek and Town Ground to White River sections, have required SW to undertake substantial redesign work in house after PEP had commenced mobilisation. The redesign is now a critical path activity although two factors somewhat mitigate the risk of it leading to delay claims from PEP. The factors are i) PEP is able to commence work on other pipe sections unaffected by the redesigns while the design work by SW is underway, and ii) PEP's own poor performance and delays in commencing the works are providing additional time float in which SW can complete the redesigns.

2.1.4 HNWS – Service Reservoirs

Accepted Contract Amount: USD 7,105,695 (construction)

Construction Period: 18 months

This sub-project has three components:

- (i) Tasahe Reservoir – 3 ML Concrete Reservoir;
- (ii) Titinge Reservoir – 3 ML Concrete Reservoir; and,
- (iii) Panatina Reservoir – 2.5 ML Concrete Reservoir.

The project was awarded to Pacific Engineering Projects Ion Exchange Joint Venture (PEP JV) with a Start Date of 3rd May 2022 and an intended completion date of 4th November 2023.



Figure 5 Steel fixing at Tasahe Tank (Photo 1/11/23)



Figure 6 Titinge Tank Base Slab (Photo 10/01/24)

2.1.5 Provincial Water Supplies

2.1.5.1 Tulagi Water Supply Upgrade

Contract Estimate: USD 4.4m (Construction)

Estimated Construction Period: 24 months

Design was substantially completed by SUEZ in 2022. However the project is relatively costly for the number of beneficiaries served. SW proposes to scale back the scheme with design scope reduced to ~USD 2.8m. Further development is on hold.

2.1.5.2 Noro Water Supply Rehabilitation and Upgrade

Contract Estimate: USD 4.8m (Construction)

Estimated Construction Period: 24 months

Noro WS Upgrade was advertised for tender in early July and bids closed on 11th September 2023. The BER was approved by SW Board on 22nd November 2023 with No Objection received from ADB on 11th January 2024. A Letter of Acceptance was issued to the successful bidder (CCB Envico Pty Ltd of West Melbourne, VIC, Australia) on 25th January 2024. There is an ongoing discussion with land claimants which will defer commencement of works until July 2024 however the claimants support the project and the claim relates only to whom lease payments for SW's three existing operational sites should be paid. There appears to be only a small risk that works will be delayed further.

2.1.5.3 Munda Water Supply Establishment

Contract Estimate USD 5.2m (Construction)

Estimated Construction Period: 24 months

SUEZ completed the majority of the design work in 2022 but was unable to complete the hydrogeological testing required to complete the design. Solomon Water will undertake the testing and incorporate the findings into a finalised design. This is expected to be complete in Q2 2024. Finalised bidding documents will be issued for ADB's No Objection and bids will be called once funding is confirmed.

2.1.5.4 Gizo Water Supply Establishment

Contract Estimate USD 9.3m (Construction)

Estimated Construction Period: 24 months

Gizo WS design was dependent on hydrogeological investigations that were completed just prior to the expiry of the SUEZ' contract on 31st December 2022. Further investigations and design are required for the water source and then updates will be required to the designs and bidding documents. This project is likely to be funded by the Government of Australia's Department of Foreign Affairs and Trade (DFAT), although funding arrangements are yet to be confirmed. This is a priority project and bidding documents will be completed as soon as the design issues are resolved. It is proposed to commission SMEC through a variation to its existing Phase 2 consultancy contract to undertake the additional design and investigations required.

2.1.6 Honiara Hydraulic Network Model Update and Calibration

This sub-project was successfully completed with the approval of the final report (Hydraulic Performance Assessment Report) on 4 March 2022 with no further UWSSSP-financed work on the model since that date.

2.2 Component 2 – Effective, Efficient and Safe Urban Sanitation Services

2.2.1 Honiara Wastewater (HNWW) Trunk Sewers & Pump Station, Outfalls & Outfall Pump Stations

Since the EU-ADB co-financing agreement was substantially delayed (but became effective on 28/04/23) this also delayed SW's bidding for 3.2.1.2 (1) and (2) (below). The shortfall of UWSSSP funds will impact on what can ultimately be built within the overall UWSSSP budget. Unless additional, but currently unforeseen, funding becomes available it appears that the sewerage scheme for west Honiara (incl. NRH outfall) will be deleted from the UWSSSP program.

2.2.1.1 Ranadi Rd to Goodwood Outfall Sewer Works

Contract Estimate: NZD 5.45m and SBD 22.0m (Total equivalent to USD~6.04m)

Estimated Construction Period: 10 months

This project was separated from the greater Ranadi sewer project with the intention to allow for servicing of the Pacific Games facilities. The Letter of Acceptance was sent to the preferred bidder, Pacific Engineering Projects (PEP), on 4th October 2022, and the contract start date was 21st December 2022. Offshore materials and equipment procurement is now 100% complete and some 140m of sewer main has been installed between Ela Motors and the sea front.



Figure 7 Goodwood Sewer PE manholes and pre-cast concrete chambers for pump station (Photo Dec 2024)

Works were suspended on site between 17 October to 3 December 2023, following MID's directive to open up all road access around the National Stadium during the Pacific Games 2023.

Poor performance by the contractor PEP compounded by land owner issues near the sea outfall and issues with surveyed levels, prevented this sub-project being commissioned in time to serve the Pacific Games in November 2023. However the adverse consequences of non-completion were mitigated through SW's contingency plan of implementing an alternative temporary pumped main through KGV School to the existing KGV pump station, at a cost to SIG of SBD 1.0m.

2.2.1.2 (1) NRH Sewer Works and Outfall (2) Ranadi Sewer Works and Outfall

Contract Estimate (Construction) (1) USD 13.2m (2) USD 23.8m

Estimated Construction Period: 24 months for each.

The development consent was issued by MECDM on 3rd May 2023. Scoping, timing of bidding and construction commencement will be impacted by the current re-prioritisation of UWSSSP sub-projects to meet funding constraints and the availability of Additional Financing.

2.3 Component 3 – Enhanced Awareness of Hygiene and Water Issues and Sustained Improved Hygiene Behaviour

2.3.1 Hygiene Awareness and Education

The WASH Program includes three UWSSSP packages, one DFAT funded project, and one awareness campaign:

- Package 1 - WASH Baseline Monitoring & Evaluation (M&E) Survey – approximately 1,000 households.
- Package 2 – Hygiene Promotion Project – including sanitation, approximately 8,500 people in six selected settlements.
- Package 3 – WASH in Schools – Capacity building and infrastructure in selected schools.
- DFAT funded Water Supply and Sanitation for Vulnerable Communities.
- National Media Campaign – Hygiene Promotion – Core Business.

Package 1 – WASH Baseline Survey

The WASH Baseline was completed in Q3 2021, and the survey report has been reviewed and approved by SW and shared with relevant interested WASH stakeholders and development partners. Findings from the survey were used to design **Package 2 – Hygiene Promotion**, and to form a baseline from which to evaluate the WASH program close to its completion.

Package 2 – Hygiene Promotion

The UWSSSP Hygiene Promotion package has been implemented by Plan International and Live & Learn and concluded at the end of September 2023. A second phase of the project has been agreed with Plan/Live & Learn (signed April 2023) and is being funded through, and managed by, the ADB Regional WASH TA.

The package includes hygiene promotion and sanitation activities. For this reporting period the team have implemented the following:

Planning meeting with Dreamcast Group to produce hygiene promotional materials through:

- Hygiene video production materials.
- Billboards with Hygiene messaging.
- Hygiene Story collection through interviews with community people.
- Posters.
- Stickers.

Key hygiene promotion activities completed during the period include:

- Ongoing project planning meetings for Phase 2 by Live & Learn and Plan International.
- Detailed work plan consultations for the Hygiene Promotion Project Phase 2 focused on prioritizing the behavior change messaging campaign for phase 2 of the project.

Key sanitation activities implemented include:

- Sanitation promotional activities focused on having a good, clean and fresh toilet have continued on various media outlets including the National Radio Broadcaster (SIBC & Barava FM), posters etc and planning for the sanitation activities for the project phase 2 are ongoing.
- Established good relationship with a number of plumbers and hardware stores in communities and fabricators – people making slabs, etc.

Also undertaken during this reporting period:

- Project Team planning for 2024 implementation activities.
- Team reflection, knowledge and learning in Fiji.
- Project activity monitoring and evaluation
- Plan and Solomon water conducted a series of meetings with Mamulele & Independence Valley communities to discuss new water connections for the two public toilet facilities in those areas. The new water connection forms have been completed and when the 2 committees return them to SW the connection teams will set a time for survey and to do the water connections to the two facilities.

Package 3 – WASH in Schools (WinS)

The updated WinS Assessment Report has been shared with the MEHRD Technical Working Group and the Honiara City Council Education Authority for further discussion and the final validation of schools for the WinS project to be tendered in Q1 2024.

A call for expressions of interest has gone out during the period with responses and shortlisting due by the end of January. This will be a two-stage recruitment with a Request for Proposals (RFP) to be advertised in February 2024.

2.3.2 Water Supply and Sanitation for Vulnerable Communities' Project (funded by Australian Department of Foreign Affairs and Trade - DFAT)

For further detail please refer to **Annex 5 – Final WSSVCP Quarterly Report July to September 2023**.

The WSSVCP includes four components:

1. Water Availability
2. Honiara Vulnerable Households Water Supply
3. City Sanitation Improvements
4. Provincial WASH Improvements

Component 1 – “Water Availability” has been completed. Key achievements include:

- Honiara - Rove source is now fully operational and secured.

- Auki - Kwaibala source is now fully operational and secured.
- Honiara - Project works for two new boreholes BH 3 & 4 at Panatina are completed and these are now in full operation.

Component 2 – The Honiara Vulnerable Households Water Supply component has completed 3,172 new household connections. This component is complete.

Component 3 – Citywide Sanitation has now been cancelled. Whilst every effort was made to identify a suitable location for a WASH Facility, this has not been possible.

Component 4 - Provincial WASH is ongoing. The component has seen the completion of a range of new and renovated WASH facilities in the four towns of Gizo, Noro, Auki, and Tulagi.

The Provincial WASH work has included a hygiene promotion program for each of the four Provincial towns.

Hygiene promotion work has now been completed in:

- Gizo (Western Province)
- Noro (Western Province)
- Tulagi (Central Province)
- Auki (Malaita Province)

The above campaigns have been conducted in schools, churches, markets, and communities in and around the urban areas with posters and Z card distribution. The Hygiene campaign was conducted through partnerships with the Provincial HP and EH Divisions of the MHMS of the above provincial Governments and Solomon Water.

Through this partnership Solomon Water had established a strong working relationship with the Provincial Health Departments of the above provinces. From the campaign, most provincial customers mostly in Auki have expressed their gratitude for the campaign as this is one of the first of its kind to be conducted within Auki and asked that it should be an ongoing activity by Solomon Water to its customers on the Water services.

The hygiene promotion campaign focused on two themes “hand washing with soap and water at critical times” and “using an effective toilet”. This included before eating, before preparing food, after going to the toilet or changing baby’s nappy/diaper. The materials used during this campaign included posters, the RWASH Hygiene Kit & the ADB funded WASH Z card.

2.3.3 National Media Campaign-Hygiene Promotion - Core Business

The Hygiene Promotion campaign in partnership with the National Health Promotion & Environmental Health Division, HCC with various church women’s groups in Honiara under the Regional WASH TA has been conducted with the following women’s groups and will continue in 2024 beginning with other new groups and schools as well.

- All Saints Women’s Group
- St Barnabas Women’s Group
- St Alban’s Women’s Group
- SSEC Women’s Group

Likewise, the scoping work for the proposed public billboard and other social media campaign materials has been completed and is ready to go for procurement. There

have been delays with Dreamcast as they have also participated in the opening and closing of the SPG 2023. Dreamcast is engaged in the Hygiene Promotion project phase 2.

Distribution of the Z card is ongoing for Solomon Water customers in Honiara, Tulaghi and Auki.



Figure 8 Hygiene Awareness for St Albans Church Women's Group



Figure 9 Hygiene Awareness for SSEC Central Church Women's Group

2.4 Component 4 – SW is financially and Technically Sustainable

2.4.1 Financial Management System Replacement

SW's new Pronto financial reporting system went live on 1st May 2023. The Accounting Module is now fully operational and reporting functionality was enhanced with minor improvements and report customisations undertaken during the quarter.

2.4.2 Data Management Including SCADA

The objectives of SW's SCADA project are to help reduce non-revenue water, maximise efficiency of motors to reduce power costs, provide real time monitoring of critical services, verify water safety in real time, provide a fully integrated system to

present production, network and energy information and training that allows SW to take full ownership of the existing and proposed system.

Following reductions in scope due to cost escalation and limited budget the project was re-packaged, and updated bidding documents were issued for No Objection in Q2 2023. However it was subsequently put on hold and is not currently planned for further development unless additional funds can be secured.

2.4.3 Tariff

High electricity costs contributed to SW posting an operating cash deficit for 2022. A 'special tariff' application to SIG was prepared by ADB-funded Wedgewood White Ltd in May 2023. This tariff application was aimed at primarily covering the high electricity cost caused by fuel price increases not factored into the current water tariffs. SW received approval from Government to increase tariffs by 4.5%, 9.5% and 7.0% of which 4.5% was implemented in September 2023, 9.5% in January 2024 and 7.0% to be applied in January 2025. Electricity remains a significant operating cost to SW due to high fuel prices that is consistent with global trends.

2.4.3.1 Tranche 2 Design

The contract for the Detailed Engineering Design Phase 2 was executed on 2nd August 2021 with SMEC International Pty Ltd. The contract period is 27 months after extensions of time that extended the completion date to October 2023 although further extensions will be necessary into 2024 after proposed variations are implemented for additional tasks.

SMEC's original services (and their current status) are:

- Asset management planning (Complete);
- SW five-year action plan update (Final Draft);
- Water pipeline replacement in Honiara (Final Draft);
- Water network expansion in Honiara, and Auki water supply expansion feasibility study (Final Draft);
- Wastewater collection system rehabilitation in Honiara (Substantially Complete); and
- Choiseul town water supply and wastewater feasibility study (Complete).

2.4.3.2 Faecal Sludge Management (FSM) Specialist

As the FSM Specialist's consultancy assignment came to an end in 2022 and no further work is currently planned. Consultation is expected with the team undertaking the ADB-funded Honiara solid waste study regarding possible incorporation of FSM in the planned modifications, closure and remediation of the existing Burns Creek rubbish tip.

2.5 Component 5 Watershed Protection (GEF financed)¹

Work during Q4 focused on the following inputs for the three project sub-outputs.

2.5.1.1 Output 1: Strengthen Capacity for Planning and Informed Decision Making

Activity 5.1.1 Formulate mapping and modelling strategy and collect remote sensing data

During the quarter the UQ team completed Home-Office-based reporting tasks without further remote sensing site visits in Solomon Islands.

Activity 5.1.2 Collect hydrological data and conduct site visits

The earlier installed hydrological monitoring sites were visited regularly by the SW National Catchment Management Officer (CMO) for data collection and maintenance. Data from all functioning sites continued to be collected by satellite telemetry. Data collection from Chubina sinkhole ceased when the logging equipment was damaged by a landslide in June 2023.

Activity 5.1.3 Develop watershed (physical) model

No work on this activity was carried out during the reporting period and it has been dropped from the program.

Activity 5.1.4 Create data, mapping and modelling platform

An interim web data dashboard was established by UQ and was providing live near-real time access to the hydrological and water quality monitoring data from Lungga, Tamuni, Kongulai Source, Kovi Sinkhole and Kovi Spring. This was an experimental proof of concept but was neither designed, constructed nor funded as ongoing SW infrastructure. Through attrition data is now received from Kongulai source and Kombito source only. Nevertheless the near real-time availability of rainfall, stream flow and turbidity data from those two sites has proved invaluable to SW's Operations team managing these critical water sources.

Whilst the costs of maintaining the web dashboard beyond the end of the UQ contract are not substantial, the monitoring field stations (**5.1.2**) do require substantial maintenance. In addition, the existing water quality monitoring network is communicating through the Iridium satellite network which incurs a significant cost (Up to USD 1,000/month). Over the coming months SW and its consultants plan to rationalise the existing monitoring network with a view to implementing cheaper (tentatively, GSM mobile) data links and make decisions on which stations should continue to provide data for operations and future planning. It is proposed to engage Fluvio consultants of Brisbane to provide a further program of services for this purpose.

¹ Component (Output) 5 Watershed Protection is entirely funded through the GEF Grant.

2.5.1.2 Output 2: Watershed Governance Improved

Activity 5.2.1 Stakeholder engagement and problem analysis and Activity 5.2.2 Catchment governance and coordination

Throughout the quarter, the Nakau and Live and Learn Solomon Islands teams conducted numerous community consultations and stakeholder interviews to execute Activity 1.2, "PES Location Studies" (see further details in section 5.3.2.1). Nakau also followed with the Ministry of Agriculture and Livestock, the Ministry of Environment, Climate Change, and Disaster Management (EREPA Program), the Ministry of Culture and Tourism, and the Ministry of Lands, Housing, and Survey. This engagement aimed to inform them about the SW PES Project and evaluate potential collaboration in PES project activities.

Activity 5.2.3 Facilitate catchment management planning.

This activity was dependent on input by UWSSSP's International Catchment Expert, whose inputs were terminated in June 2023. Options for completing this task by other means are under review.

Erosion Protection - Ground stabilisation to Solomon Water Catchments and Assets

During Q4 SW trial planting of vetiver grass continued to complement other ground stabilisation measures at areas at risk of erosion.

Planting materials: Coir fibre and coconut peat - Locally owned company Coconut Bio Energy has been engaged since 2022 to produced coconut fibre and peat for the nursery development of vetiver slips. Hence a quantity of 800 kg (500kg of coconut fibre and 300kg of coconut peat) was purchased from Coconut Bio Energy and delivered to the Solo Enviro Beautification nursery for the next batch of vetiver slips for SW.

1. Rove Water Source

Planting of Vetiver grass planting was successfully completed at Rove water Source in November 2023. The vetiver grass was planted to support the banks and trap sedimentation where it usually runs into the pond during heavy rain. See below pictures of before and after the vetiver grass was planted.



Figure 10: Rove Water Source before planting (Photo 12/09/23)



Figure 11 After vetiver grass planted at Rove Water Source (Photo 10/01/24)

2. Proposed Sites for Vetiver Grass

Further vetiver grass planting for erosion protection is planned at the following sites

- **Titinge Storage Tank** (Honiara) - the site was assessed and approximately 30,000 vetiver slips required have been ordered from Solo Enviro Beautification to cover cut slopes around the new tank.
- **Panatina Boreholes** - the site was assessed and approximately 4,000 vetiver slips required have been ordered from Solo Enviro beautification to covered eroded areas within and outside the fence.

- **Kwaibala Water Source** (Auki) - to be assessed
- **Kombito Water Source** (Honiara) – to be assessed

Establishment of a Catchment Fund

Scope under review, not progressed in this quarter.

2.5.2 Output 3: Community Livelihood and Forest Carbon Payment for Eco Services (PES) Activities Supported

2.5.2.1 Nakau Programme Activities: September to December 2023

During Q4 Nakau has completed the analysis of data collected in Q3 and consolidated the PES location report. The PES location studies consist of a situation analysis in situ to study the forest ecosystem functions and restoration needs, forest resources (timber and carbon stocks) and social systems. The results and findings are detailed described in five documents, providing information for the feasibility analysis of PES options A (Community Based Watershed PES) and PES option B (Voluntary Carbon Market Project) and recommendations for PES project activities and location.

On October 27th the project team presented and discussed the study's results in an internal workshop held at the SW Conference room, in the Mataniko office. The PES location report and related documents were submitted in November. In Q1 (year 2024), Nakau will present the project concept design for the development and implementation of PES activities within the Community Based Watershed PES project.

2.6 Q4 Main findings

The studies concluded that, considering the SW WCM-PES project objectives and site selection criteria “water quality”, is recommended that WCM-PES Project strategies should focus only on the PES option A, which corresponds to the Community-Based Watershed PES project. Forest Voluntary Carbon Market projects (PES option B) in both rehabilitation activities and prevention of ecosystem degradation would not be feasible at the current scale. The carbon credits amount would likely not cover the costs of the required services and render a VCM forest carbon project financially unfeasible. Furthermore, social aspects (particularly rights determination) do not meet the eligibility criteria requirements for VCM projects.

The PES Location studies and feasibility analysis advises that land use restrictions for water catchment management (Kovi, Kongulai and Kohove) and the location of PES activities should focus on areas with high significance for water quality. This will enable Landowners to continue accessing land to develop their usual livelihood activities at same time that support PES activities.

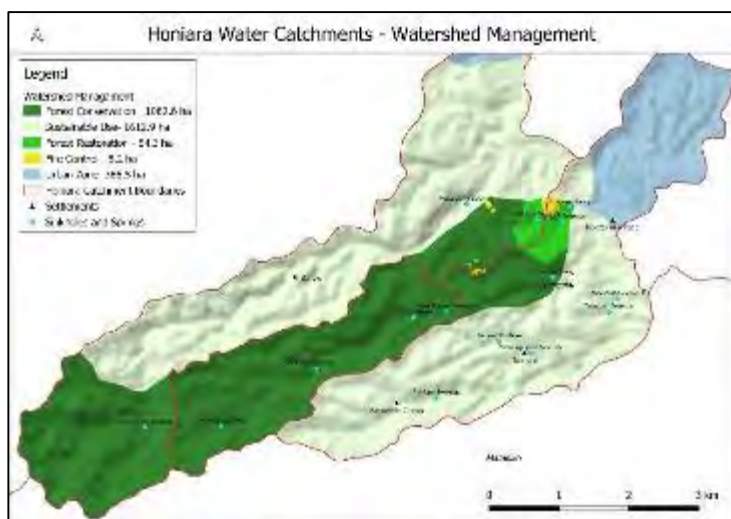
The study proposed management zoning for the water catchment area (contribution to Output 2, Activity 5.2.3) consisting of two main zones: Restricted Use (1125.1 ha) and Sustainable Use (1612.9 ha).



The Restricted Zone comprises key sites identified in UQ studies, with an additional extended area incorporating the Paramandali sinkhole.

The technical studies demonstrate that most of the area within the water catchment restricted zone can be incorporated into the Forest Conservation Management Strategy. This strategy aims to protect the forest against unsustainable use and

promote resilience of ecosystem functions.



The Forest Restoration Management Strategy will target a smaller area of 54.3 ha, while complementary management efforts on Fire Control should focus on an area of 8.2 ha. Both management efforts are crucial for restoring disrupted ecosystem functions caused by forest degradation. The surrounding area categorized as Sustainable Use will include livelihood activities that engage landowners supporting the

forest conservation and restoration strategies.

Regarding the social context, the assessment has confirmed that the catchment areas – in particular the Kongulai and Kovi catchments – are an extremely challenging social context and operating environment for the project. The research team's overall assessment recommendation is that the next phase of the project should focus on establishing a Community-based Watershed PES activities in Kohove catchment, while simultaneously working to resolve some of the issues that currently constitute key risks to the establishment of a watershed PES project for Kongulai and Kovi.

For instance, the Kakau Roha group based at Kongulai village has recently formed a tribal association – *Kongulai Gaena'alu Kakau Roha Land Trust Board* (KGKLTB) – for the primary purpose of asserting their land ownership claims. The KGKLTB's grievances about land issues form part of a wider set of grievances and "demands" that they have recently put to Solomon Water in writing. External mediation by a trusted third party combined with assistance to Land Recording (or registration) and piloting some PES project activities – with associated non-cash benefits provided for Kongulai village – could be helpful in terms of repairing the relationship and building good will between the parties. This could assist in improving the relationship.

Despite these challenges, there is clearly a strong desire amongst KGKLTB members to conserve Kovi catchment, and, while the group has been primarily formed for the purpose of asserting the family's landownership claims, it also provides a corporate entity (effectively a tribal association) that the project team could work with. Additionally, Kakau Roha tribe's authority over Kohove catchment demonstrated high interest in work together SW for the development of PES projects in Kohove catchment. These two opportunities and "detangling" the issues between SW and KGKLTB may facilitate the agreements for PES project implementation.

General Project Management

In Q4, the frequency of project meetings was adjusted based on the annual leave calendar of team members. The project management activities focused on submitting deliverables as described in the work plan and plan the activities for Q1 of 2024.

3 SAFEGUARDS

3.1 Environmental Safeguards

Implementation of environmental and social safeguards for UWSSSP projects continues to comply with both the country safeguards system and ADB/WB policies and instruments.

3.1.1 Safeguard Documents

During Q4 2023, there were no IEEs or CESMPs to review and update. All CESMPs and IEEs reviewed in Q1-3 have been approved by donor partners and MECDM. The only outstanding matter during this reporting period is:

- The Gizo water supply project IEE/PER revision and finalization is still further delayed awaiting approval for more hydrogeological investigations at Mile 6 Lake and surface water sources.

Error! Reference source not found. **Table 4.1** (below) summarises the approval status of the various IEE/PER documents and development consent applications completed to date.

Table 3-1: Status of IEE/PERs for UWSSSP Sub-projects

UWSSSP Subprojects	Safeguard Documents	Status as at end June 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
Honiara Water Supply					
Kongulai Water Treatment Plant	IEE/ PER	Approved by MECDM. Approved by ADB/WB.	12 th March 2020	1 st May 2020.	Approval by WB Regional Safeguard Advisor (RSA) received on 9 April 2021.
Honiara Network Water Supply-Service Reservoirs	IEE/PER	Approved by ADB/WB.	21 st January 2021	17 th March 2021	Updated IEE/PER resubmitted to WB/ADB on 6 th October 2021. No objection received on 29 th October 2021.
Honiara Network Water Supply-Trunk Mains	IEE/PER	Approved by ADB/WB.	21 st January 2021	17 th March 2021	Updated IEE/PER resubmitted to WB/ADB on 6 th October 2021. No objection received on 29 th October 2021.
Provincial Water Supply Schemes					
Auki	IEE/PER	Approved by MECDM. Approved by ADB/WB.	10 th August 2018	24 th September 2018	Project currently in operational phase. Defects liability period lapsed on 12 th October 2021.
Tulagi	IEE/PER	Approved by ADB/WB.	25 th January 2021	7 th March 2021	Updated IEE/PER resubmitted to WB RSA on 12 th October 2021. No objection received on 19 th November 2021.
Noro	IEE/PER	Approved by ADB/WB	6 th December 2022	29 th March 2023	The IEE/PER was cleared by WB RSA on 21 st April 2022. Noro development consent granted by MECDM on 29 th March 2023.

UWSSSP Subprojects	Safeguard Documents	Status as at end June 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
Munda	IEE/PER	Approved by ADB/WB	6 th December 2022	10 th April 2023	Approval from WB RSA received on 9 th May 2022. MECDM granted the DC on 10 th April 2023.
Gizo	IEE/PER	Review and updating of report is pending.			Revision and finalisation of the IEE/PER is further delayed awaiting approval for more hydrogeological investigations around Mile 6 lake.
Honiara Sewer Rehabilitation and Expansion Program					
Honiara Network Wastewater- (Pump Stations and Collector Mains)	EIS	EIS undergoing review awaiting approval from MECDM	DC application submitted to MECDM on 6 th February 2023.	3 rd May 2023	ADB/WB No objection received on 3 rd February 2023. DC application was reviewed and approved by MECDM on 3 rd May 2023.
Honiara Network Wastewater-Outfalls	EIS	Final draft of EIS undergoing review by SW and EIS team.	DC application submitted to MECDM on 6 th February 2023	3 rd May 2023	ADB/WB No objection received on 3 rd February 2023. DC application was reviewed and approved by MECDM on 3 rd May 2023.

3.1.2 Environmental Monitoring

There were weekly site visits to Kongulai WTP, Panatina and Tasahe reservoir sites, Panatina to Burns Creek trunk mains sites, and the Ranadi-Goodwood sewer and outfall construction site during this reporting period.

a stop work notice was issued to PEP by the SW Project Manager requesting rectification of the identified issues at the Trunk Mains Panatina to Burns Creek Section before they can resume with construction works. The issues were rectified and construction works was resumed in this reporting period.

SW PMU safeguards team organised a workshop which was held on 4th October 2023, with current SW UWSSSP contractors, project managers, supervisors and their safeguard oversight team in this reporting period. The objective of the half day workshop was to go through a quick refresher on expectations on safeguards roles and responsibilities during construction stages of their various projects. This is to ensure their activities comply with the safeguard requirements indicated in their CESMPs.

3.1.3 Workers' Health and Safety

There were several health and safety issues recorded in the site visits undertaken in this reporting period. The H&S issues observed were:

- Workers not complying with PPE requirements.
- Lack of documentation of JSA and prestart toolbox meeting, and,
- Lack of proper resting space for workers.

The issues were communicated to contractors and all issues were rectified before approval to resume construction works was given by the relevant SW project Manager. The importance of complying with the requirements in the approved CESMPs was highlighted to the contractor when doing the weekly site visits and follow-ups.

3.1.4 Consultation with SMEC Management and Environmental Team

The following subprojects are financed under the UWSSSP (Phase 2):

- Auki Water Network Expansion
- Honiara Water Pipeline Rehabilitation, and
- Honiara Water Network Expansion

Review and updating of the IEEs is ongoing by SMEC in this reporting period. The draft proposal application for Auki Water Network Expansion was completed in this reporting period. The IEE/PER's are expected to be completed in Q1 and Q2 2024.

The following Phase 2 projects required development consents from MECDM (see **Table 4-2**).

Table 4-2 Status of IEE/PERs for UWSSSP Sub-projects delivered by SMEC

UWSSSP Phase 2 subprojects	Safeguard Documents	Status as at end December 2023	Development Application Submission Dates	Development Consent Issue Date	Remarks
Auki Water Network Expansion	Proposal Application and IEE/PER	Draft Proposal application is completed and submitted to SW.			Draft proposal application is completed and submitted to SW on 19 th December 2023.
Honiara Water Supply Rehabilitation (10km)	Proposal Application and IEE/PER	Draft PER completed by SMEC. Review and updating of the IEE/PERs is ongoing by SMEC.			Draft PER received from SMEC on 19 th April 2023. SW reviewed and provided comments to SMEC on 17 th April 2023. Review and updating of the IEE/PER is ongoing. Revised IEE/PER expected to be completed in Q1 2024.
Honiara Water Supply Network Expansion	Proposal Application and IEE/PER	Proposal Application is finalised and submitted to MECDM, which responded that a PER is required. Review and updating of IEE/PER is ongoing by SMEC.			Draft PER received from SMEC on 24 th April 2023. SW provided comments to SMEC on 17 th April 2023. Review and updating of the IEE/PER is ongoing. Revised IEE/PER expected to be completed in Q1 2024.
Honiara Sewerage Network Rehabilitation(7km)	Proposal Application and IEE/PER	Proposal application and IEE/PER development underway.			

UWSSSP Phase 2 subprojects	Safeguard Documents	Status as at end December 2023	Development Application Submission Dates	Development Consent Issue Date	Remarks
Choiseul Town Water Supply and Wastewater System	Proposal Application	Proposal application is finalized and submitted to MECDM. MECDM responded that an EIS is required. Development of EIS is not part of SMEC scope for this project.	NA	NA	MECDM responded on 19 th December 2022 via email that an EIS is required for the project. Development of EIS is not part of the scope for Phase 2.

3.2 Social Safeguards

The social safeguards team has continued to provide oversight on the implementation of four CESMPs of subprojects that are being constructed simultaneously in Honiara as well as undertaking ongoing negotiations with land owners to complete the LARPs for subprojects that are still undergoing final detailed designs. Part of the work also includes the ongoing monitoring of LARPs that have been fully implemented. The only subproject which has been completed and is now in operation in the Auki Water Supply Improvement project. The oversight work on the CESMPs is performed through conducting visits to construction sites, reviewing contractor's monthly monitoring reports, supporting contractors in their consultation requirements and assisting in resolution of grievances.

3.2.1 Land Acquisition & Resettlement Plans (LARPs)

The Project LARPs for both phase 1 and phase 2 including the summary of their status is presented in **Table 4.3**. Under Phase 1 of UWSSSP, 13 LARPs are required. Six LARPs have been completed and received No Objection (NO) from ADB/WB, while five of them are still being worked on. For the second phase of the project, it is likely that due diligence reports will be required for the water and wastewater pipeline rehabilitation projects, since construction works will be within existing easements. The water supply expansion projects, on the other hand, are likely to trigger the Involuntary Resettlement Policy of ADB, as new land may need to be acquired if trunk mains are installed within private land, and/or if works will cause economic displacement. These determinations will be made after the detailed designs are completed showing the pipeline alignment.

Table 3.3: Status of LARPs for UWSSSP Sub-projects

Sub-Project		IR Category	LARP/DDR prepared	LARP/DDR cleared/ Status of subproject implementation
No	Name			
UWSSSP (Phase 1) Subprojects				
1	Kongulai WTP	B	Yes	Yes (9/04/ 2021) Site clearance completed. Excavation working underway.
2	Honiara Water Supply Service Reservoirs (Panatina, Tasahe, and Titinge reservoirs)	B	Yes	Yes (31/12/21) Demolition of old reservoirs completed. Construction of new reservoir is underway.
3	Honiara Water Supply-Trunk Mains	B	Yes	Yes (31/12/21) Survey works completed. Construction works underway.
4	Auki Water Supply Improvement	B	Yes	Yes Subproject completed and now operational
5	Tulagi Water Supply Project	B	Yes	Yes (1/10/2021).
6	Gizo Water Supply	B	Yes	No (Pending negotiation and signing of MOU with Land Title Holders and awaiting advice from the subproject management team if and when reinvestigation work is required)
7	Noro Water Supply Improvement	B	Yes	No (Pending the identification of actual landowners through the acquisition process currently underway conducted by the MOL)
8	Munda Water Supply	B	Yes	No (Pending investigation works by technical group and signing of MOU with land title holders. The proposed tank site is customary owned and therefore needing MOL to initiate the land acquisition process).

Sub-Project		IR Category	LARP/DDR prepared	LARP/DDR cleared/ Status of subproject implementation
9	Honiara Network Wastewater-Outfalls			
10	Honiara Network Wastewater-(Pump station and collector mains)			
11	Honiara Wastewater: Eastern Section	B	Yes	No (Pending negotiation and signing of MOU with 3 land title holders)
12	Honiara Wastewater: Goodwood Section ²	B	Yes	Yes (6/09/2022) Construction works underway
13	Honiara Wastewater: Western Section	B	Yes	No (Pending negotiation and signing of MOU with 4 land title holders)
UWSSSP (Phase 2) Subprojects delivered by SMEC				
14	Auki Water Network Expansion	B	No	No (Not yet developed)
15	Honiara Water Pipeline Rehabilitation	B	No	No (Not yet developed)
17	Honiara Wastewater Pipeline Rehabilitation	B	No	No (Not yet developed)
16	Honiara Water Network Expansion	B	No	No (Not yet developed)

3.2.2 Status of Implementation of LARPs

(a) Honiara Water Supply Project (HNWS)

The three LARPs for the Honiara Water Supply Project (Phase 1) have been approved by ADB/WB and construction works are currently underway. All land required for the HNWS (Phase 1) subprojects, both government and privately owned, has been acquired. The implementation of the relevant LARPs has been completed except for

² The Goodwood section has a separate LARP developed specifically ahead of the rest of the eastern wastewater system due to the urgency to construct that section in time for the South Pacific Games in 2023, a target that was ultimately not achieved. The works are still going on.

two outstanding resettlement payments to the following AP for the HNWS Trunk Main LARP.

HNWS Trunk Mains LARP. The two resettlement payments for APs yet to be completed for the HNWS Trunk Mains LARP as follows;

- **SDA Church:** There is one outstanding payment for SDA Church to complete the total payment for the easement access (area of 84.4 m²). Eighty percent (SBD 81,024) of the payment has been paid with the remaining 20% to be paid after the survey and easement instruments have been executed which are still progressing. This is for water supply trunk main East Kolaridge to Kukum section. Works on this section have commenced.
- **Mr K** During the development of the HNWS Trunk Mains LARP, the alignment of the pipeline within Mr K's land at White River area, had not been finalised. At that time an agreement was made with Mr K in December 2020 that after construction of the new pipeline, a survey for the subdivision for easement of approximately 2.5 m from the pipe centreline within his land will be performed and associated payments made to him immediately after. The cost will be calculated based on the rates used in the Sales Agreement in January 2020 which was \$217.00 per SQM.
- **Kongulai WTP:** The Kongulai WTP LARP has been fully implemented.
Works started on site including the setting up of a site office, workers' rest bays and sanitation facilities. Excavation works also commenced after a stop work notice was lifted by SW following the implementation of sedimentation control works on site by the contractor.
- **Community Advisory Committee (CAC):** The first CAC was established on 1 February 2023, for Tasahe-Kongulai-White River area. No other CACs have yet been formed, but Titinge should be next

HNWS Reservoirs: The LARP for HNWS reservoirs (Panatina, Titinge and Tasahe Reservoirs) has been fully implemented. There are no resettlement issues relating to the LARP experienced during the reporting period.

3.2.2.1 Honiara Wastewater Project (HNWW) LARP

The Honiara wastewater subproject is separated into 2 sections. The Eastern Section which is defined by the proposed network starting at Point Cruz and ending at NRH (also referred to as the NRH section) and the Western Section which runs from the Bahai Area up to Ranadi. The LARPs for the two sections were drafted by Suez and reviewed by SW, while the detailed designs were being finalised in 2022.

Negotiations with land title holders for easement access and land acquisition continued during the reporting period though no new MOU was signed during this quarter. The SW PMU safeguards team have been working to properly complete the two LARPs, furnishing them with the relevant signed MOUs with the respective land title holders/APs as identified in those LARPs.

The status of negotiations with land title holders is summarised in **Table 4-4**. To achieve consistencies across the LARPs, all negotiations and agreements have been or will be, captured in MOUs between SW and the respective APs or land title holders.

In the Eastern wastewater system, the Ranadi to Goodwood Outfall section has a separate LARP developed specifically ahead of the rest of the eastern wastewater

system, due to the urgency to construct that section in time for the Pacific Games in November 2023. The Goodwood LARP received an all clear from the development partners on 6th September 2022. However, Pacific Engineering Project Limited (PEP) who was awarded the contract to construct this section of the infrastructure was so late starting, the system was not finished in time for the Pacific Games. Works are continuing.

HNWW Western:

In the LARP for HNWW Western section, there are no concerns in relation to acquiring land for easement access or sublease arrangements. The status of negotiations with the respective land title owners are presented **Table 4-4**.

Solomon Islands Ports Authority (SIPA): SW will require pipelines and a PS to be installed within the land owned by SIPA. SW engaged the services of a valuer to value all the lands required by SW for pipe installation and the PS within SIPA land. SW has put together a draft MOU with offers inserted based on the valuation but has yet to receive a response from SIPA.

United Church of Solomon Islands (UCSI): A draft MoU containing an offer for easement payment based on the value that UCSI requested, has been submitted to UCSI who say that they are satisfied with the content of the MOU. The MoU is expected to be signed in Q1 2024.

Seafront Trustees: SW has approved an increased offer as requested by the seafront trustees for the outfall sections (both eastern and western). However, the legality of ownership of the seafront is currently still being contested in court by the Commissioner of Land (COL). Therefore, SW is awaiting the determination of the court before proceeding further. There has been no news from COL this quarter.

HNWW Eastern:

There are two main concerns for the HNWW Eastern LARP:

KCM Limited: Although the owner of the proposed site for the Naha wastewater pumping station located along the Kukum Highway, did not object to SW constructing the pump station within his land (320m²), he could not agree to any of the numerous offers that SW has proposed. SW therefore asked MOL for resumption of the land and is awaiting progress from the MOL.

Tropical Helicopters (TH): According to the designs done by Suez, the best option for the proposed siting of the Ranadi PS is within the road reserve in front of the Silent World Compound with an overflow pipe (for emergency purposes only) designed to go through the western boundary fence of the compound owned by Tropical Helicopter Company. Despite constant follow-up TH has remained unresponsive to all communications. SW therefore decided to liaise with Douglas Logistics (DL), who shared the same boundary with TH hoping they would be happy to cooperate with SW. A letter was sent to DL toward the end of Q3 regarding the SW proposal. SW has yet to receive any feedback from DL though in a brief meeting held with them in Q2, they sounded eager to have further discussions with SW. This will be followed up in Q1 2024.

3.2.2.2 Provincial water supplies:

- (1) **Tulagi Water Supply:** All resettlement activities have been completed. The APs have received their payments and there are no other outstanding payments or pending MoUs.
- (2) **Noro Water Supply:** The Noro LARP is still awaiting a signed MOU with the respective trustees for the lands where the Noro Water Supply Upgrade works will take place.

The Commissioner of Lands (COL), appointed an acquisition officer (AO) to facilitate the proper processes to have the 3 parcels of the Ziata land where the upgrade works are going to take place, legally registered under the rightful landowners. This will enable SW to formally establish a lease agreement with them. During the reporting period, in early December, the AO made his determination, writing a report based on the evidence that was heard to decide who the rightful landowners are. It was hoped SW could then sign an MOU with the landowners' trustees with the intention of allowing the development (proposed upgrade works) to proceed. However, the acquisition process cannot proceed during the appeals period which will take 3 months from the date the determination was published by the COL (4th December). Later in December one appeal was received from Biku representatives who asked to see the MOU signed by the land owners, and who demanded that no MOU be signed and no money paid until an appeal is heard in January 2024. So at the moment, SW cannot survey or register of the area of interest as PE in the names of the landowners' representatives (as determined by the AO). The Safeguards team intends to meet with local WB and ADB safeguards staff to discuss the case, as the risks appear to have escalated.

- (3) **Munda Water Supply:** Suez has developed a draft LARP for Munda after consultations were conducted with customary and registered landowners who all supported the project, citing the need for water in Munda. Owners of customary lands also provided support/consent letters to SW, to allow SW access to the land to install pipeline works. The Munda water supply design includes a reservoir as part of the Munda system. A site at Polovesu has been identified for this purpose which is 'owned' by the Kere family who are also residing there. Polovesu, though it is customary, has about four generations of the Kere family living on it; this family is part of the Kazakuru clan, but has been recognised by clan, as having primary rights to the land. The Kere family has been consulted on numerous occasions, and have maintained their support for the project and the siting of the reservoir within the family land. To ensure that legal instruments are established to allow SW to have a proper lease agreement with the owners for the proposed tank site, the COL will have to initiate another land acquisition process according to the Land and Titles Acts similar to the one that is currently happening for Noro.

A valuation of the proposed tank site was undertaken in Q1 of 2023. SW however is waiting on the technical team to decide on other customary lands suitable for the siting of boreholes before it provides instruction to the COL to embark on the acquisition process.

SW developed a draft MOU with the Kere family whom they met in Honiara on 21st November 2022. any response to SW regarding the draft MOU. The Kere

family hinted during the meeting on November 2022 and again in February 2023 that they would like SW to consider another location also at Polovesu, for the siting of the reservoir. SW will need to first investigate the feasibility of that site but it is unlikely that SW will agree to that, as detailed design work has already been completed for the original site.

The maps of the proposed pipeline routes in Munda have been provided in the draft LARP but there is still the need to verify that the pipelines will not encroach into private properties. Suez stated that the proposed pipelines will follow the roads and had intended to follow up with MID to ascertain whether the roads in Munda have been gazetted. It has yet to be determined if MID or the provincial government own the roads, particularly within the Lambete area. The roads within Dundu area are customary, and there has already been a letter of support and consent from the community's chiefs to have the pipeline installed along the road. The proposed airport bore, north of the runway is within the land owned by the commissioner and therefore SW is going to prepare an MOU with the COL to allow access to rehabilitate and operate the borehole. At this stage no tests have been performed on the borehole to determine its state and yield. In case it is discovered to not be adequate, SW will have to look for an alternative bore site, likely to be in the Dundu area and situated on customary land. With SW priorities focused on Honiara infrastructure and other areas, progress on the Munda LARP has been slow.

- (4) **Gizo Water Supply:** Detailed design works on the pipelines have been completed. The hydrogeological survey of three boreholes owned by the Western Provincial Government, was completed at the end of 2022 with results showing that the yield is either insufficient or inconclusive. A decision was made that the boreholes need to be re-tested and additional bore sites identified. SW is opting for another bore investigation. The preparation of the LARP and identification of APs for the complete network was undertaken by Suez in 2022 but not completed. However, it was established with Suez during the designing of the system, that all pipe routes must follow the road reserves. During the reporting period, the progress of the Gizo LARP remained unchanged as noted in **Table 4-3**. This LARP is pending the re-testing of the boreholes to verify whether the investment for Gizo will proceed or not. SW does not want to pursue any negotiations with APs until after the next borehole investigation work is done, to prove if the bores are viable.

The list of LARPs and their approval status is shown on **Table 4-3** (above) while the following **Table 4-4** describes the progress of negotiations with landowners.

Table 3-4: Status of Negotiations with Land Title Holders for Easement Access or Land Purchase

Names of Affected Parties	Type	Requirement for LARP	Status as of 31 December 2023	Comments
<i>HNWW – Western Section LARP (Point Cruz to NRH)</i>				
Solomon Islands Ports Authority (SIPA)	Pump station (PS) and pipelines	MOU for easement access for pipeline and PS.	Ongoing	SW has made compensation offers to SIPA for proposed easements early this quarter including in a draft MOU. Once the compensation rates are agreed upon by SIPA, SW anticipates that SIPA will sign the MOU. This was expected to happen in Q4, but SIPA is yet to respond to SW on the offers made to them.
SSEC	Pipelines	MOU for easement access.	Ongoing	SW and SSEC have agreed on a compensation figure. SW has also issued a draft MOU to SSEC with clauses agreed with by both parties. Anticipating MOU signing in Q1 2024.
Uniting Church	Pipelines	MOU for easement access	Ongoing	Anticipated MOU signing in Q1 2024. All clauses within the MOU including compensation figures have been agreed with by both parties.
MID	Pipelines	MOU for easement access	Not yet	For works on roadway between Point Cruz – NRH & Tuvaruhu-NRH. This section is not amongst the priority areas; however, an MOU with MID should be established in early 2024.
MHMS & COL	Pipelines within NRH and 2 x Pump Stations	MOU for easement access	Signed (18 th Aug 2022)	Completed

Names of Affected Parties	Type	Requirement for LARP	Status as of 31 December 2023	Comments
Ontong Java Community (OJC)	Pipelines	MOU for easement access	Ongoing	An MOU with OJC was signed on 6 June 2023. First 80% payment executed on 8 June 2023. 20% payment will be done after execution of easement instrument.
Seafront Trustees	Outfall	MOU for easement access	Ongoing	Trustees want escrow account clause removed from MOU. SW cannot agree since the land in question (after the shoreline) is being contested in court by COL. Still awaiting court decision on ownership. No news from COL
HNWW – Eastern Section LARP (Bahai to Ranadi)				
MID	Pipelines (Bahai-Ministry of Fisheries area)	MOU for easement access	Not yet	Anticipated MOU drafted by SW in Q1 in 2024.
KCM	NAHA PS	FTE Payment for required land size (land acquisition)	Ongoing	SW has been following MOL progress on resumption of the land. Anticipating resumption to be completed in early 2024
MID	Pipelines (Fisheries to Ranadi Round – about)	MOU for easement access	Signed	This project has been taken over by SIG
MID	Ranadi PS and Pipelines	MOU for easement access and consent	Signed	30 November 2022

Names of Affected Parties	Type	Requirement for LARP	Status as of 31 December 2023	Comments
Tropical Helicopter (TH)	Overflow pipe	MOU for easement access	Ongoing	Attempts to communicate with TH have not been successful. SW will hand over the issue to MOL for their assistance. SW in the meantime have liaised with Douglas Logistics which is the neighbouring property to see if they would accept SW's proposal to put pipes along their boundary. No response yet.
MID	Goodwood PS and Pipelines	MOU for easement access and consent	Signed	PS (18 th August 2022) Pipeline (2 nd September 2022)
COL & HCC	Ranadi Landfill PS	MOU for Consent	Signed	October 2022
GPPOL	Pipeline	MOU for easement access	Ongoing	GPPOL has not yet signed the MOU because they would like to see the new detailed design drawing, including pipeline alignment, along the eastern boundary of GPPOL property. SW will engage SMEC to carry out the design work. Anticipating signing of the MOU in Q1 in 2024.

Names of Affected Parties	Type	Requirement for LARP	Status as of 31 December 2023	Comments
Provincial Water Supply – Munda LARP				
Frank Kere, land occupant	Pipeline and Reservoir	MOU for consent and clearance of trees and crops	Ongoing	Draft MOU already shared with the Kere family on 21 st November 2022. A response of support was provided by the Kere family but they requested to meet with SW to discuss compensation rates. The meeting did not eventuate in 2023. SW is anticipating a meeting with the Kere family in Q1 of 2024.
COL	Borehole and pipeline	MOU for consent	Not Yet	Consultation has been done with MCA. SW need to draft an MOU with the COL after the bore has been tested for viability.

Names of Affected Parties	Type	Requirement for LARP	Status as of 31 December 2023	Comments
Provincial Water Supply - Noro LARP				
Ziata Tribal Owners (Kazakuru)	Upgrade of existing Infrastructure	Supporting letter for the project to proceed	Ongoing	<p>The MOL has initiated an acquisition process within this quarter for the 3 plots of land where the proposed upgrade works will be undertaken. A determination of the rightful landowners was released in early December 2023 and an MOU signed. It was hoped this would allow for a conditional No Objection from DPs.</p> <p>However, SW must wait until the 3 months Appeals process is completed before going further. One appeal has been received from Biku representatives. Although, SW has signed an MOU with the LOs, it seems that no construction works can proceed during the acquisition process appeal's period.</p>
Provincial Water Supply - GIZO LARP				
Western Provincial Government (WPG)	Pipelines	MOU for easement access	Not yet	<p>Pipeline routes will only follow road right of way. The Western Provincial Government gave consent in November 2022, for works to proceed in Gizo.</p> <p>The Safeguards Team need reinvestigation works on the borehole to be completed as the initial one done in 2022 suggested that the existing bore fields are not viable.</p>

Names of Affected Parties	Type	Requirement for LARP	Status as of 31 December 2023	Comments
Dr. Lester Ross & WPG	Reservoir	MOU for land acquisition	Complete	MOU executed in Q2 2023

3.2.3 Resettlement

The Safeguards Team continues to monitor the construction works, but all current resettlement provisions have been completed for Honiara subprojects. Monitoring of site works is normally done in coordination with the National Environmental Safeguards Specialist. The contractors also submit monthly safeguards monitoring reports, which are reviewed by the PMU staff, who provide feedback through a 'Notice to Contractor' (NTC) system. There are currently three CESMPs being monitored: the Honiara Water Supply Trunk Mains, Honiara Water Supply Reservoir subproject, and the Kongulai Water Treatment Plant subproject.

There will be future resettlement and compensation requirements for the Honiara Wastewater subprojects and the provincial water supply projects including Munda, Gizo and Noro for which LARPs are still progressing. During the reporting period, efforts have been made on consultations and negotiations with APs relating to the ongoing development of the LARPs.

Matters of significant importance: There are no matters of significant importance raised in this quarter, apart from the construction delays outlined in **Section 3** of this report.

Grievance Redress Mechanism: During the reporting period (Q4), there were no grievances raised.

3.2.4 Consultation and Awareness of the Project

A summary of consultations held during Q4 of 2023 is shown in the **Table 4.5** below. With construction works now proceeding, the SW PMU continues to provide support and oversight on the contractors' consultation requirements to ensure that the APs and the public are properly informed in adequate time before work proceeds and in the event that work completion is delayed.

Table 4.5: Summary of Consultation activities for Q4 2023

Date	Awareness Type/Project	Community	SW Action	Key Contacts	Facilitator	Participants	SW Team	Key Message
18-Oct-23	Trunk Mains Upgrade – KGVI School	KGVI School	Provide oversight to PEP	Affected Staffs and Students	PEP	Male:12 Female: 0		<ol style="list-style-type: none"> 1. Inform KGVI school staffs about the construction works will soon start near the KGVI school 2. Awareness of staffs and students' safety at construction site 3. Awareness on TMP
18 Oct 23	Kongulai WTP	Kongulai	Provide Oversight to Rean	Kongulai Community	Rean	Male: 3 Female: 5		<ol style="list-style-type: none"> 1. Update community on excavation works 2. Health & Safety at the WTP construction site 3. Environmental Issues/impacts 4. GRM Procedures
31 Oct 23	Kongulai WTP	Kongulai - Tasahe	Provide oversight to Rean	Kongulai to Tasahe	Rean	Male: 10 Female: 9		<ol style="list-style-type: none"> 1. Update on current works at the Kongulai WTP construction site
14 Nov 23	Kongulai WTP	Kongulai	Support Rean on consultation	Kongulai	Rean/SW			<ol style="list-style-type: none"> 1. Construction of MSE wall at the gravesite
15-Nov-23	Honiara Reservoir Upgrade – Tasahe	Tasahe Community	Provide oversight to PEP	Affected community	PEP	Male: Female:		<ol style="list-style-type: none"> 1. Inform the community that there will be a concrete pouring for the base of the new reservoir from 5pm till late. 2. Advise community to be cautious and keep children away from the construction site.

Date	Awareness Type/Project	Community	SW Action	Key Contacts	Facilitator	Participants	SW Team	Key Message
16-Nov-23	Trunk Mains Upgrade – Namoruka to Kongulai	Namoruka to Kongulai	Provide oversight to PEP	Affected community	PEP	Male: 13 Female: 8		1. Construction of Water Trunk Mains (pipelines) to commence on Friday, 17 th of November 2023 2. Awareness of public safety at construction site.
25-Nov-23	Trunk Mains Upgrade – Kongulai Valley	Kongulai Valley	Provide oversight to PEP	Affected Community	PEP	Male: 12 Female: 12		1. To let the community know that construction works for trunk mains (pipelines) will commence on Monday, 27 th of November 2023. 2. Advise community to be cautious and keep children away from construction site.
28-Nov-23	Trunk Mains Upgrade – Capital Park	Stakeholders in Honiara	Provide oversight to PEP	Affected Stakeholders	PEP	Male: 6 Female: 4		1. To let the stakeholders know that construction of trunk mains (pipelines) will commence on Monday, 4 th of December 2023.
8 Dec 23	Kongulai WTP	Kongulai	Provide oversight to Rean	Kongulai	Rean			1. Update on WTP work progress



Figure 13 Rean CLO, Rose Watehaa – with community members (Photo 31/10/23)



Figure 12 PEP CLO, Jasper Saeni, talking with community members (Photo 25/11/23)

3.2.5 Gender Action Plan (GAP) Implementation

The next GAP monitoring report covering the period from July to December 2023 is in progress and will be submitted at the end of January 2024.

There is ongoing monitoring to ensure all consultations include women participants and that resettlement agreements are providing compensation to both men and

women. Basic monitoring of milestones and progress on gender related issues is ongoing with SW's international social safeguards and gender consultant providing support remotely to the PMU communication team, which has overall responsibility for gender issues within SW, assisted by the safeguards team. In particular, the team have tried to ensure that women in communities will have equal opportunities and will be protected from any adverse social impacts related to SW activities.

Staff gender training

In Q3/4 SW arranged gender training for all staff who had not completed the first round of training undertaken in 2021. The gender/GBV training took place between 7th September and 13th October, and was facilitated by Family Support Centre (FSC) who also previously delivered the gender training for SW staff in 2021. The SW staff were grouped into 8 groups of about 24 staff in each group. Six groups were males and two groups of females. Each of the cohorts went through 2 days of training. The contents of the training were similar to the previous courses but now also include SEAH. The training schedule was provided in the last quarterly report and SW is awaiting a full report from the Family Support Centre. However, the training was observed to be of good quality, and was well received. Another training meeting was also held with contractors to build their capacity in terms of social and environmental safeguards. Details of the training are given in **Table 4.6** (below):

Table 4.6: Training meetings conducted in Q4 2023

Date	Training Type	Venue	Key Contacts	Facilitator	SW Team	Participants	Status
07-Sep to 13 Oct 23	GBV/Gender Training	Mataniko Conference Room	Family Support Center - 26999	Family Support Center - 26999	Ngina Sale Relinta Manaka	Solomon Water Staff	Complete
04 Oct 23	Contractors Safeguards Meeting	BJS Conference Room	PEP & Rean Staff	SW	Marista Kapini Agnes Atkin Joshua Kera Henry Kuper	PEP and Rean Staff	Complete

4 PERFORMANCE, MONITORING & EVALUATION FRAMEWORK (PMEF)

The draft M&E H1 Semi-Annual Progress Report was compiled and shared internally with SW, PMU for peer review in July, shared with DPs in September and was endorsed by ADB with no changes in October and WB in November 2023 with two minor comments on:

- NRW reported differences in the M&E report and what was presented at September review mission by NRW team (now updated).
- The target of female representation at managerial levels in SW was lower than the baseline and commentary on the reasons for this and actions undertaken by SW to reverse the trend (commentary provided and justification on the baseline numbers).

Following the project mid-term review mission and WB additional financing review mission in October 2023, there were recommendations for some changes to the project targets. This will have implications for future reporting against the project's results framework. ADB will process additional financial for approval in Q2/Q3 of 2024 and thereafter revise the ADB Design Monitoring Framework to align with WB's Results Framework. The proposed revisions to the WB's results framework has now been incorporated into the UWSSSP M&E Framework but will be reported against in the H1 2024 SAP M&E report but keep the current M&E targets in the H2 2023 report.

Other Q3 and Q4 2023 activities under PMEF included:

- PMU continues to monitor the progress of the indicators according to the agreed framework on a six-monthly basis to determine the efficiency and effectiveness of the project.
- Most of Q3 of 2023 was spent on preparations for the September Review mission, finalising the H1 M&E Report, participating in the WB-led Additional Financing October mission and actioning the proposed revisions to the WB Results Framework into UWSSSP M&E Framework. Q4 included commencing data collection on current output/outcome level indicator values for the M&E framework and next Semi-annual M&E report.

5 AREAS OF CONCERN

Areas of concern are:-

Physical Works

- Rean-PCS JV is pursuing legal action against SW to seek reversal of the termination (on 13th Dec 2023) of its contract to construct the Kongulai WTP. Plans to complete the WTP will be formulated by SW and the Court actions resolved to enable completion of the sub-project.
- Lack of in country resourcing is becoming an issue for Contractors. Resources for Safeguards and Technical roles remain difficult to secure which is leading to high burdens on SW and Contractor staff and Contractors' progress being limited.
- PEP is struggling to bring adequate resources to bear on the 3 sub-projects for which it has been contracted (combined value approximately USD 21m) and they are not progressing in line with SW's expectations. Despite assertions in PEP's bids, the nominated personnel and equipment are not apparent with the Contractor seeking out sub-contracting arrangements with mixed success to date.
- Other concerns affecting the Ranadi to Goodwood Sewer Project include errors in design levels with actuals affecting set outs thus delaying project progress and numerous uncharted underground utilities (SW, SP and Telekom) resulting in damages and utility relocation works also delaying project progress. Proposals are being discussed to address the RL issues through retrofitting the PE manholes during installation.
- The holding of the Pacific Games 2023 events in and around the new stadium at Ranadi affected various SW contracts in this area. To avoid impacting the Games SW contracts for Fisheries-Telekom Sewer, Ranadi-Goodwood Sewer & Outfall and parts of the Trunk Water Mains project were shut down from early October to December 2023. These stoppages substantially delayed all projects. The time lost cannot be made up and completion is irretrievably delayed for all three projects.
- ADB are funding the widening to four lanes of Mendana Avenue from Town Ground to White River. Although the road works had been delayed the road works contractor eventually started on drainage and culvert works in late June. The UWSSSP funded HNWS Trunk Mains project works contractor (PEP) was also delayed and now has to avoid conflict with CCECC's road works which is compounding the delays to SW's Trunk Mains sub-project.
- Recent landowner claims relating to SW's infrastructure sites near Noro have the potential to substantially delay the water supply upgrade works contract that is now under contract award.

Safeguards

- Areas of concern remain the same as in the last quarterly report. Slow progress in land acquisition continues and is one of the key reasons for the delay in submission of LARP documentation. Much of the land is government owned but there are significant tracts of customary (mainly in the provinces) or privately held land that are yet to be acquired. In particular, there have been difficulties in acquiring necessary land for pipelines and pump stations in Honiara, as private owners are

reluctant to sell or lease for the official valuation rates. Getting agreements with some parties has proved very time consuming, not to say frustrating. Most of the LARPs are awaiting the signing of MOUs to finalise agreements with landowners.

- SIG - Ministry of Lands, Housing & Survey is progressing with revised Land Tenure arrangements for SW's three operational sites in Noro but this is not expected to impact the proposed UWSSSP Upgrade works beyond delaying the commencement date until July/August 2024.

Catchment Protection:

- Historic disputes and conflicts with customary land owners in catchment areas continues for land issues and natural resources management. A constructive dialogue has to be continued and financially and socially viable compensation packages determined for forthcoming land use zoning and subsequent restrictions.
- While several steps forward were taken in engaging various project stakeholders the lack of coordination and timely consultations remains weak and leads continuously to difficulties in developing and implementing sustainable catchment management strategies.

6 NEXT QUARTER (Q1 2024) - PLANNED ACTIVITIES

The following are the main UWSSSP activities planned for Q4 of 2023:

UWSSSP Studies and Designs

- Substantially complete UWSSSP Phase 2 design services (SMEC), ready for tendering works packages later in 2024.

Physical Works

- Implementation of the following sub-project construction works in accordance with their respective contract documents: (i) HNWS Service Reservoirs; (ii) HNWS Water Trunk Mains; (iii) HNWW Ranadi Rd to Goodwood Sewer Outfall.
- Kongulai WTP - resolution of contract termination claims, conclusion of ongoing Court actions with contractor, implementation of plans to complete construction of the WTP;
- Resolution of design and water source investigations for Gizo PWS to enable progress towards finalisation of bid documents for the Munda and Gizo PWS sub-projects and release for bidding, No objections and release of request for tenders also dependent on four party funding confirmation between SIG, DFAT, WB and ADB.
- Execution of contract for the Noro PWS sub-project.
- Noro Water Supply Upgrade - Procurement of long lead plant and equipment should commence in February 2024 with delivery to occur ahead of site mobilisation in July 2024.
- Combined drilling campaign for Gizo and Munda expected to commence by mid-2024.
- Resolve future status of the revised SCADA project, depending on finance availability from DPs.

Environmental safeguards:

- Monitoring of CESMP implementation on UWSSSP Phase 1 subprojects in Honiara.
- Undertake site inspections of UWSSSP Phase 1 subprojects in Honiara.

Social Safeguards:

- Continuation of work to establish and operate Community Advisory Committees (CACs) for HNWS.
- Completion of LARPs and submission/approval of development partners for:
 - Noro, Munda and Gizo provincial water supplies.
 - HNWW NRH and Ranadi Sewer Works sub-projects.
- Continue procurement of a consultant to implement Wash in Schools (WinS) sub-project.
- Meet with relevant SW staff to review data which is collected at time of water connection to households. There is a need to include more information, in order

to monitor progress, such as: age, literacy level, disability, income bands, female headed households. A work plan is to be developed for implementation of surveys.

- Set up Dropbox-style system for storage of gender documents relating to targets and indicators. Ensure all training materials, consultation reports, presentations, and other materials are provided to ADB/WB.
- Develop long-term plan for three surveys to help monitor the project impacts on women. These should take place in 2023, 2025, and 2028. A working group consisting of the Gender specialist, WASH specialist, and M&E specialist to discuss with SW staff, the design of the proposed 2023 survey, in order to provide data to monitor the GAP and project indicators. A work plan to be developed for implementation of the survey(s).

Catchment protection:

- Follow up on hydrological assessments of the target catchments to support protection zoning and planning of conservation and restoration activities.
- Further mapping of areas for conservation and sites for restoration activities also in cooperation with GEF 6 and forthcoming logging applications in continued dialogue with MECDM
- Continuation of preparatory income generation activities e.g. nursery operations and training on the provision of plant material for forthcoming field testing and out-planting in identified areas, including Cherona landslide at Kongulai
- Roll out of further stream bank stabilisation methods, including Vetiver Grass planting at additional catchment sites.
- Start-up workshops with land user groups regarding PES and income generation. Participatory identification of a communication and outreach strategy.
- Inputs by the catchment specialist individual consultant were wound up at the end of July 2023. Alternative methods of delivering the remaining scope of tasks from the specialists ToR will be explored with a view to requesting Nakau/L&L and Fluvio to undertake parts of this work as variations to their existing contracts.

Performance, Monitoring and Evaluation Framework (PMEF)

Planned PMEF activities for Q1 2024 include:

- Complete data gathering and start collation for next M&E reporting period (H2 of 2023) and submit the draft for peer review and final version for donor approval.
- Receive DP comments on H2 Report and make required changes.
- Prepare and participate in the M&E and project risk sessions at the next Donor Review Mission March 2024.
- Update the UWSSSP M&E data collection scorecards with the proposed revisions to WB results framework for H1 2024 reporting period.
- Work closely with EU, other Donor partners and UWSSSP to align EU project log frame to existing UWSSSP M&E framework and existing reporting mechanisms that will minimise the duplication of reporting against the project impact, outcome and output indicators.

- Continued implementation and reporting against the ADB M&E Framework (PMEF) and the World Bank Results Framework (RF).

WASH in Schools (WinS)

Planned WinS activities in Q1 2024 are:

- Finalise WinS Request for Proposals (RFP) shortlist, tender documents and RFP document
- Advertise Request for RFP for the WinS consultancy contract.

Annex 1: Sub-Project Summaries

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Sub-Project Summary 31st Dec 2024 issued according to GCC 7 [Confidential Details]

Title: Urban Water Supply and Sanitation Sector Project (UWSSSP)

Project SW0402021 UWSSSP-Kongulai WTP, 1km Pipeline to Tasahe Tank & Operations (1yr & 1yr option) Contractor: REAN Watertech PCS JV. Contract Start Date 5 May 2022. Intended Completion Date at Start Date: 29 June 2023. Contractor's Estimated Completion (incl. Variations, if any): 29 June 2024.

	Contract Content or Description	Status at report date	SW Comments
Scope	Construct Kongulai Water Treatment Plant (WTP). Construct 1 km pipeline to Tasahe tank. Operate WTP for 12 months. Option to operate WTP for a further 12 months.	Works partially complete at 13 th Dec 2023, Contractor Site presence limited to security/maintenance personnel.	Scope of Works remain unamended, external determinative forum deliberating circumstances.
Budget	Value USD15.6M	Budget approved and available to Employer	USD 0.467M paid to date.
Schedule	Intended Completion Date 29 June 2023	Program update not provided in Jan-2024 according to GCC 35.1	Program remains unamended, external determinative forum deliberating circumstances.
Construction Works	Specification and Drawings defines and describes Works	Site offices and sediment controls established, and earthworks and excavations partially performed.	Recommencement of Construction Works subject to external determinative forum deliberation and placement of CAR insurance.
Procurement	Contractor Procurement Plan identifies vendors and sources of materials and supplies	Limited materials delivered into Honiara Port during Jan/Feb-2024.	As yet unverified completion of inputs as follows: Design 70% complete Materials and equipment procurement 75% ordered and 50% manufactured.
Resources	Contractor Resource Management Plan contains details	Project Manager at and around Site, security personnel at Site.	Resource mobilisation subject to external determinative forum deliberation.
Communication	Contractor Communication Plan contains details	Communications generally flowing according to GCC 12.1.	Further and detailed communications subject to external determinative forum deliberation.
Contract	GCC, PCC and other documentation define and describe Party obligations, entitlements, duties, powers and liabilities. Liquidated Damages set at USD6,000 per day max 260 days (USD1.6M)	Performance Bond expiry date is 23 rd Oct 2024.	Further and detailed communications regarding labour laws, insurance, CESMP, quality of Works subject to external determinative forum deliberation.
Quality	Contractor Quality Management Plan contains details	CESMP compliance measurement requires further enquiry.	Further and detailed communications subject to external determinative forum deliberation.
Risks	Contractor Risk Management Plan contains details according to GCC 16 through 19	Contractor recording and reporting requires further enquiry.	Further and detailed communications subject to external determinative forum deliberation.
Major Issues		1. Program, CESMP, construction and related slippage. 2. Kongulai land lease.	Slippage has budget and cost impacts, and reputational risk. Landowner agitation regarding water supply and related payments from SIG.

Sub-Project Summary 31st Dec 2024 issued according to GCC 7 [Confidential Details]

Title: Urban Water Supply and Sanitation Sector Project (UWSSSP)

Project SW0662021 UWSSSP - Water Reservoirs (x3) Concrete Tanks at Panatina, Tasahe, & Titinge

Contractor: Pacific Engineering Project (PEP) Contract Start date: 3 May 2022

Completion Date at Start Date: 4 November 2023.

Contractor's Estimated Completion (incl. Variations, if any): 30 July 2024.

	Contract Content or Description	Status at report date	SW Comments
Scope	Build three concrete water reservoirs Patinata (2.5ML) Tasahe (3ML) Titinge (3ML)	Unchanged	There have been no major changes to the scope of works
Budget	Value USD 7.1M	Budget approved and available to Employer	Certified to date: USD 1,923,100 Paid to date USD 1,482,500 Figures include Advance Payment. All payments are being made in accordance with the contract.
Schedule	Intended Completion Date 30 November 2023.	PEP currently Reporting Completion Date Is 30 July 2024. SW forecast completion around November 2024	Construction works seriously delayed. Extensions of Time sought but none approved due to inadequate documentation/justification to support claims.
Construction Works	No major changes to scope of construction works.	Excavations underway, foundation preparation works for two reservoirs substantially complete & first concrete pouring for Tasahe base slab forecast Sunday 14th January.	Delivery of concrete to contract requirements is challenging as concrete plant is many kilometers away from the three sites.
Procurement	Contractor Procurement Plan identifies vendors and sources of materials and supplies	All chemical concrete retardants and admixtures now cleared from the Ports, allowing concrete works to commence.	Materials and equipment procurement 95% complete.
Resources	Contractor Resource Management Plan contains details	Mobilisation of resources - insufficient level of experienced contractor and SW staff on ground.	Procurement of increased SW staff resources underway.
Communication	As per contract - Communication Plan implementation	Communication and reporting, language barrier (EASL) issue improving.	Contractor demonstrating minimal improvement, failing to respond to correspondence/NTCs Issued by the SW Project Manager on several serious Issues.

Sub-Project Summary 31st Dec 2024 issued according to GCC 7 [Confidential Details]

Title: Urban Water Supply and Sanitation Sector Project (UWSSSP)

Project SW0192019: UWSSSP - Trunk Water Mains (x3) - Construction of 11km trunk mains in Honiara

Contractor: Pacific Engineering Projects (PEP) Contract Start date: 16 June 2022. Intended Completion

Date at Start Date: 18 December 2023. Contractor's Estimated Completion (incl. Variations, if any):

13 May 2024.

	Contract Content or Description	Status at report date	SW Comments
Scope	Build 6km trunk main Kongulai to White River to Rove. Build 1.8km trunk main East Kola to Kukum Highway. Build 3.2 km trunk main Panatina reservoir to Burns Creek	MID have required SW to dig the majority of pipelines much deeper so that minimum 2m cover is achieved, with impacts on time and costs. Pacific Games work has impacted on completion time and costs.	There have been no major changes to the scope of works
Budget	Value USD 7.8m	Budget approved	Certified to date: USD 1,760,000 Paid to date USD 1,458,100 Figures include the Advance Payment.
Schedule	Scheduled completion as per contract is 18 December 2023	Delayed, with schedule overrun. PEP Reporting Completion Date November 2024. SW forecast completion around Dec 2024	Construction works are seriously delayed. Extensions of Time sought but none approved due to inadequate documentation and/or merit provided by Contractor to justify claims.
Construction Works	General issues of construction works.	Panatina to Burns Creek - 884m of pipeline in ground and tested, 690m yet to be tested of the 884m. East Kola to Kukum Highway - 562m in ground and tested ok.	Construction works restarted from 4th Dec for all components following end of the Pacific Games.
Procurement	Contractor Procurement Plan identifies vendors and sources of materials and supplies	Materials delivered to site	Materials and equipment procurement 98% complete.
Resources	Contractor Resource Management Plan contains details	Mobilised at 7 sites, inadequate PEP & SW resources to cater for this amount of activity. PEP failing to provide suitable Technician Foremen, incl. for welding.	Having too many sites open for construction represents a safety and quality risk. Number of sites open at once. to be limited commensurate with Contractor resources.
Communication	As per contract - Communication Plan implementation	Reports are not being received monthly	Fair quality reports provided, albeit some inaccuracies.
Contract	Contract provisions and requirements remain unchanged	Behind schedule	Could not deliver by December 2023 as per contract, more likely by around December 2024.
Quality	Contractor Quality Management Plan contains details	Poor quality of Traffic Management and Trenching work, poor quality of workplace safety, poor quality concrete pours.	Overall – Poor results of contractor's construction management to date.
Risks	Contractor Risk Management Plan contains details according to GCC 16 through 19	Project schedule. Early warnings not accurately quantified or qualified by contractor and not submitted to SW within reasonable and acceptable timeframes.	Social Safeguards Professional and Environmental Engineer positions not filled, this may force stoppage at all sites by Solomon Water. Supervising Welding Foreman is another critical position not currently filled which may also force stoppage of works on all sites.
Major Issues		1. Program, CESMP, construction, slippage. 2. Project delivery and costs impact. 3. Competency and suitability of PEP supervision.	Cost over-run and time delay risks. Financial risk due to Advance paid above contract requirements. Payments are being made in accordance with the contract.

Sub-Project Summary 31st Dec 2024 issued according to GCC 7 [Confidential Details]

Title: Urban Water Supply and Sanitation Sector Project (UWSSSP)

Project SW0622021: UWSSSP - Sewer Works - Fisheries to Telekom 1.2 km Sewer Pipeline

Contractor: McConnell Dowell Contract Start date: 7 December 2022

Intended Completion Date at Start Date: 7 December 2023.

Contractor's Estimated Completion (incl. Variations, if any): 13 May 2024

	Description	Status	SW Comments
Scope	Construction and installation of Sewer between Fisheries and Telekom. Includes laying of 1.2km of DN400, DN500 and DN700 PE pipes; laterals of DN200 PVC pipes and construction of manholes.	Scope reduced by two manholes and 80 metres length of piping	No other changes to the scope of works
Budget	Value SBD 80m	Budget approved and available to Employer Variation for extra geotech cost pending.	Paid to date SBD 56.3m.
Schedule	Scheduled completion May 2024	Work ceased due to PG2023 Games, and recommenced 11 Dec 2023.	Completion date extended to allow for works stood down during Games
Construction Works	No change to status of construction works.	Additional road paving was required for PG2023	
Procurement	Contractor Procurement Plan identifies vendors and sources of materials and supplies	No procurement issues	Design 100% complete. Materials and equipment procurement 30% complete
Resources	Contractor Resource Management Plan contains details	All resources mobilised to site	No issues
Communication	Contractor Communication Plan contains details	Communications generally flowing according to GCC 12.1.	Minor issues, managed by Contractor/SW
Contract	Contract provisions and requirements remain unchanged	Provisions and requirements of contract complied with.	No Issues
Quality	As per contract - Quality Management Plan implementation	High level of quality assurance provided by Contractor	Re: safety, reporting, works social safeguards, environment etc.
Risks	Contractor Risk Management Plan contains details according to GCC 16 through 19	Further civils and excavation risk from rock/hard ground and restrictions on lane closures	Delay impacts on schedule and costs
Major Issues	Civil works	Sheet piling progress variable due to ground conditions. Tax exemption Issue - Contractor has paid tax expecting refund. On-going issue with civil works	Delay in works schedule. Delay in refund of taxes and duties. Delay & cost increases if MID/SIG can not not approve addition length of Kukum Hwy lane closures.

Sub-Project Summary 31st Dec 2024 issued according to GCC 7 [Confidential Details]

Title: Urban Water Supply and Sanitation Sector Project (UWSSSP)

Project SW0682021: UWSSSP Ranadi Road to Goodwood Outfall Sewer Project, 1.2 km Pipeline

Contractor: Pacific Engineering Projects (PEP) Contract Start date: 21 December 2022. Intended Completion Date at Start Date: 28 October 2023. Contractor's Estimated Completion (incl. Variations, if any): 15 January 2024.

	Description	Status	SW Comments
Scope	Construction of 1.2km sewer from Ranadi Roundabout (Ela Motors) to Goodwood Marine Outfall (pipes DN200 to DN700) and construction of associated manholes and a pumping station.	Unchanged	There have been no changes to the scope of works but deletion of temporary pumping station and outfall under consideration.
Budget	Value: NZD 5.45m & SBD 22m (Total Approx. USD 6.0m)	Budget approved and available to Employer. Cost variations pending approval	Paid to date NZD 4.3m (Includes Advance Payment). No Variations approved to date. Advance payment bond extended to 31 March 2024. 100% Goods and Duty Exemptions valid to 30 April 2024.
Schedule	intended Completion Date 28 October 2023	Pending EOT approval following stop works at Goodwood, Suspension of works for PG2023 and Levels (RL) discrepancy issues.	No EOT approved to date Contractor forecast completion on 30 May 2024. SW forecast is November 2024.
Construction Works	Construction scope of works.	Installed 10% complete Total works complete 20% to date.	Proposed changes to manhole installation to address RL issues.
Procurement	As per contract – Procurement Plan implementation	Manholes procured 100% complete. HDPE and PVC pipes/fitting 100% complete Pump station 100% complete	Design 100% complete Materials and equipment procurement 100% complete
Resources	As per contract - Resource Management Plan implementation	Mobilisation of resources gradual. Staff movements (SW & PEP)	Some night work prior to PG shutdown in Oct '23
Communication	Contractor Communication Plan contains details	Communications generally flowing according to GCC 12.1.	Need for Improved stakeholder communication and engagement by contractor
Contract	Contract provisions and requirements remain unchanged	Contract provisions complied with	
Quality	Contractor Quality Management Plan contains details	Satisfactory	Needs continuous monitoring to ensure QA
Risks	As per contract - Risk Management Plan implementation	Land owner adjacent outfall objection outstanding	SW managing Landowner issue Need for improved contractor CESMP compliance
Major Issues	Land owner issue	Work stopped at Goodwood section on 7 June 2023 by landowner	SW and contractor negotiation ongoing with current landowner re: extension of outfall point further from waterline. Deletion of temporary pumping station and outfall to remove this risk and is under consideration

Annex 2: UWSSSP 2023 Annual Work Plan

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Annex 1:											
2024 ANNUAL WORK PLAN											
Output 1Secure and safe urban water supplies		Q1	Q2	Q3	Q4	Project Value (USD m) ¹	Spend to end 2023 (USD m)	2024 Spend (USD m)	Source of funds	Safeguards	
										Status at End 2023	Actions in 2024
Honiara Water Supply											
1.1	Kongulai Water Treatment Plant	Under Review				17.00	0.47	0.50	ADB/WB	All safeguards requirements have been met.	Implementation arrangements under review
1.2	Honiara Network Water Supply - Trunk mains	Construction				7.79	1.46	6.33	ADB/WB	All safeguards requirements have been met.	Monitor Implementation.
1.3	Honiara Network Water Supply - Service Reservoirs	Construction				7.10	1.92	5.18	ADB/WB	All safeguards requirements have been met.	Monitor Implementation.
1.4	Pre-paid Water Meter (Cash Water) Change Out	Ongoing				2.83	1.41	0.50	ADB/WB	N/A	N/A
1.5	Honiara Pipe Replacements		Bid & Award		Construction	8.90	0.00	1.00	ADB/WB	-	IEE & LARP
1.6	Honiara Water Supply Expansion			Bid & Award		13.40	0.00	0.00	ADB/WB	-	IEE & LARP
Provincial Water Supply Schemes											
1.5	Provincial Water Supply - Gizo ²			Bid & Award	Construction	12.83	0.00	2.00	ADB/WB/ EU	IEE 95% complete. LARP 85% complete	Finalise IEE & LARP for approval, and monitor implementation
1.6	Provincial Water Supply - Noro	Contract Award	Construction			4.16	0.00	3.00	WB	IEE approved. LARP 95% complete.	Contract Award & Implementation
1.7	Provincial Water Supply - Munda			Bid & Award	Construction	2.85	0.00	0.50	ADB/WB/ EU	IEE approved. LARP 85% complete.	LARP approval and Monitor implementation
1.8	Provincial Water Supply - Tulagi	On Hold. Scope reduction required.				2.00	0.00	0.00	ADB/WB/ EU	On hold	Revise IEE & LARP
		Output 1 Total				78.85	5.25	19.01			
Output 2Effective, efficient and safe urban sanitation services		Q1	Q2	Q3	Q4	Project Value (USD m) ¹	Spend to end 2023 (USD m)	2024 Spend (USD m)	Source of funds	Safeguards	
										Status at End 2023	Actions in 2024
Honiara Sewer Rehabilitation and Expansion Program											
2.1	Ranadi Rd to Goodwood Outfall Sewer Works	Construction				6.65	2.64	4.00	ADB/WB/EU	EIS approved by MECDM. LARP approved. Exemption received from MECDM.	EIS approval. Monitor Implementation.
2.2	NRH Sewer Works and Outfall	On Hold				21.73	0.00	0.00	ADB/WB/EU	EIS submitted to MECDM.LARP 85% complete.	EIS and LARP approval. Monitor implementation.
2.3	Ranadi Sewer Works and Outfall	Postponed		Bid & Award		14.90	0.00	1.00	ADB/WB/EU	EIS Submitted to MECDM. LARP 85% complete.	EIS and LARP approval. Monitor implementation.
2.4	Septage Treatment Facility	On Hold				0.00	0.00	0.00	ADB/WB/EU	N/A	N/A
		Output 2 Total				43.28	2.64	5.00			
Output 3Enhanced awareness of hygiene and water issues and sustained improved hygiene		Q1	Q2	Q3	Q4	Project Value (USD m) ¹	Spend to end 2023 (USD m)	2024 Spend (USD m)	Source of funds		
3.1	WaSH Baseline Survey	Completed in 2021				0.08	0.08	0.00	ADB/EU		
3.2	Hygiene Awareness - Part B	Implementation				1.00	0.00	1.00	ADB/EU		

3.3	WaSH in Schools	RFP	Implementation		1.00	0.00	0.80	ADB/EU	
		Output 3 Total			2.08	0.08	1.80		
Output 4 Institutional Strengthening and Project Management		Q1	Q2	Q3	Q4	Project Value (USD m) ¹	Spend to end 2023 (USD m)	2024 Spend (USD m)	Source of funds
4.1	Financial Management System Replacement	System Live			0.85	0.85	0.00	ADB/SW	
4.2	Data Management Including SCADA	Postponed		Bid & Award	Implementation	0.50	0.00	0.25	ADB/SW
4.3	Detailed Engineering Design - Phase 2	Implementation				1.90	1.20	0.70	ADB/SW
		Output 4 Total			3.25	2.05	0.95		
Output 5 Catchment Protection		Q1	Q2	Q3	Q4	Project Value (USD m)	Spend to end 2023 (USD m)	2024 Spend (USD m)	Source of funds
5.1	Catchment Management & Paid Ecosystem Services Consultancy - Nakau	Implementation			1.49	0.40	0.50	GEF	
		Output 4 Total			1.49	0.40	0.50		
Solomon Water Funded Activities		Q1	Q2	Q3	Q4	Project Value (USD m)	Spend to end 2023 (USD m)	2024 Spend (USD m)	Source of funds
5.1	Contingency support to construction Projects	As required			6.50	0.00	TBD	SW	
5.2	Support to Output 4 projects	In kind contribution to PMU management & operation			2.50	0.50	0.50	SW	
		SW Contribution Total			9.00	0.50	0.50		
		WHOLE PROJECT			136.46	10.53	27.27		

Notes:

- ¹ Includes 10% contingency
- ² Requires further design. Implementation to be funded in part by Australia DFAT grant of AUD 15m (~USD 10.07m) outside of UWSSSP
- ³ Output 1.6, 1.7, 2.1, 2.2 & 2.3 - delayed by EU/ADB funding agreements not being reached until 28/04/23.

Annex 3: UWSSSP Financial Summary

The following table shows funds allocated and disbursed over the Life to Date (LTD) of the funding agreements that comprise the UWSSSP

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URBAN WATER SUPPLY AND SANITATION SECTOR PROJECT
Financial Summary

Cumulative up to 31 December 2023, in US dollars

Project Disbursements by Disbursement Mode

	ADB			EU	IDA			
Disbursement Mode	Grant 0662	Grant 0801	Loan 3826	Grant 0663	Loan 6407	SIG	SIWA	Total
Direct payments from donors/lenders	5,740,831	955,314	9,969,393	376,091	1,731,043	-	-	18,772,670
Payments through the project advance accounts	1,408,516	-	-		559,898	-	-	1,968,415
Payments made by SIWA to be reimbursed from the donors/lenders	-	-	-	220,046	-	-	-	220,046
Others	-	-	-		-	6,978,070	6,274,171	13,252,241
Total Project Disbursements	7,149,347	955,314	9,969,393	596,136	2,290,941	6,978,070	6,274,171	34,213,372
Capitalized interest	-	-	141,292	-	-	-	-	141,292
Net interest income on advance account	-	-	-	-	(3,238)	-	-	(3,238)
Total	7,149,347	955,314	10,110,684	596,136	2,287,703	6,978,070	6,274,171	34,351,426
Fund allocation	9,000,000	4,587,156	28,000,000	20,347,000	15,000,000	12,128,000	9,000,000	
Remaining fund allocation	1,850,653	3,631,842	17,889,316	19,750,864	12,712,297	5,149,930	2,725,829	
Effectivity date	23-Apr-2020	3-Feb-2022	23-Apr-2020	28-Apr-2023	23-Apr-2020			
Closing date	31-Dec-2028	31-Dec-2027	31-Dec-2028	31-Dec-2028	30-Jun-2027			

Project Disbursements by Output

Output No. and Description	ADB			EU	IDA	SIG	SIWA	Total
	Grant 0662	Grant 0801	Loan 3826	Grant 0663	Loan 6407			
1: Continuous, safe, and climate resilient urban water supply ensured	6,452,690	955,314	7,074,631	-	2,290,941	6,978,070	-	23,751,647
2: Urban sanitation services are effective, efficient, and safe in GHA	-	-	2,894,761	-	-	-	-	2,894,761
3: Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns	117,100	-	-	-	-	-	-	117,100
4: SIWA is financially and technically sustainable	579,557	-	-	596,136	-	-	6,274,171	7,449,864
5: Management of Honiara's drinking water source area strengthened to build resilience to climate change	-	-	-	-	-	-	-	-
	7,149,347	955,314	9,969,393	596,136	2,290,941	6,978,070	6,274,171	34,213,372

Project Disbursements by Cost Category

Cost Category	ADB			EU		IDA		SIG	SIWA	Total	Budget
	Grant 0662	Grant 0801	Loan 3826	Grant 0663	Loan 6407						
1: Civil works, materials, and equipment	3,337,751	-	9,969,393	-	2,290,941	-	-	-	-	15,598,085	61,254,000
2: Consultancy services	3,811,595	955,314	-	596,136	-	-	-	-	1,472,531	6,835,577	15,268,000
3: Project visibility	-	-	-	-	-	-	-	-	-	-	-
4: Taxes and duties	-	-	-	-	-	6,978,070	-	-	-	6,978,070	12,128,000
5: Contingencies	-	-	-	-	-	-	-	-	4,801,640	4,801,640	8,237,000
	7,149,347	955,314	9,969,393	596,136	2,290,941	6,978,070	6,274,171			34,213,372	96,887,000

Annex 4: SW UWSSSP Cost Estimate

(as of 29th September 2023)

Source: Asian Development Bank

UWSSSP Cost Estimate
(as of 29 September 2023)

Output	Description	Current Cost Estimate (US\$)	Notes
1	Augmentation and rehabilitation of Kongulai water treatment plant.	15,646,656	Actual contract price (REAN).
1	Honiara Water Supply Trunk Mains Upgrade	7,786,883	Actual contract price (PEP).
1	Honiara Water Supply Reservoirs	7,105,695	Actual contract price (PEP).
1	Water Supply distribution mains expansion program	13,400,000	October 2022 estimate by SMEC covering 10km of new water mains to informal Settlement Supplies in the Mt Austen, Noah Hill, and Nine Ridges areas.
1	Service connection/meter replacement program	2,825,000	Budgetary provision. Water meter expenditure to date is US\$1,408,643 (comprising \$1,385,510.50 for 5,385 cashwater meters and \$23,132.78 for 400 conventional water meters).
1	Leak detection and repair program including installation of PRVs and / or pressure break tanks, and mains renewal program	10,000,000	Increased allocation agreed on 15 May 2023 to address NRW. Further investments of potentially \$20 million will be made to target NRW reduction if additional financing is secured. SMEC September 2023 cost estimate for replacement of 10km of water mains is \$8.9m.
1	Gizo water supply scheme upgrade	11,909,091	To be financed by Australia but delivered under the project as a counterpart contribution. The scope of the subproject may need to be reduced if the costs exceed the funding provided by Australia (tentatively A\$15 million). Note that \$250,000 is allowed for completing the design of the works including investigation and confirmation of potential water sources.
1	Noro Water Supply Scheme	4,034,091	Bid price (approximate). Bid evaluation being finalized, finalization of LARP pending before contract award and construction start.
1	Tulagi Water Supply Scheme	2,694,034	Estimate provided by SW (16 May 2023). Will only proceed if sufficient additional financing is secured.
1	Munda Water Supply Scheme	6,480,682	Will only proceed if sufficient additional financing is secured.
1	Auki Water Supply Scheme	3,034,764	Contract price, including variations, as of 4 September 2020 (A\$3,948,431.78) based on USD-AUD ROE (0.7685999261) on 8 March 2021.
1	Water Supply Network Modelling	347,500	Actual Contract - SAEGE
1	Vehicles (pick-up trucks for works supervision)	31,901	Actual cost - Ela Motors
1	Wheeled Excavator	53,218	Actual cost - United Auto
2	Reconfiguration of the Honiara sewerage system - NRH.	19,759,091	Will only proceed if sufficient additional financing is secured.

Output	Description	Current Cost Estimate (US\$)	Notes
2	Sewer Works Ranadi Road to Goodwood Outfall	6,044,067	Actual contract price (PEP).
2	Sewer works Kukum Hwy (Fisheries to Ranadi Roundabout).	8,568,000	Financed by SW (SIG grant)
2	Reconfiguration of the Honiara sewerage system - Ranadi.	14,943,281	SAFEGE October 2021 estimate. Does NOT include contingencies. Unlikely to proceed under UWSSSP. 13 Oct 2022 - Cost escalated by 125% to account cost escalation arising from for COVID-19 impacts and international inflation.
2	Sewerage rehabilitation and expansion	3,400,000	Will only proceed if sufficient additional financing is secured.
2	Septage Treatment Plant	2,564,238	Will only proceed if sufficient additional financing is secured. Lowest priority subproject.
2	Fecal Sludge Management Strategy (Part 1)	63,180	Actual Contract - D. Robbins.
2	Fecal Sludge Management Strategy (Part 2)	95,000	Actual Contract - D. Robbins.
2	Rapid Technical assessment for sanitation and desludging in GHA	41,456	Actual Contract -Pacific Health Research and Consultancy Service
3	Hygiene awareness program EU	1,000,000	Budgetary provision.
3	WASH Survey	82,032	Actual contract - Pacific Health Research and Consultancy Services
3	WASH Survey Equipment	3,829	Blu Distributors
3	Hygiene Promotion Project	807,980	Actual Contract - Plan International Australia
4	FMIS Data management - Project Management	38,479	Actual Contract - Deloitte PNG. Contract PNGK375,980 (US\$106,740 equiv on 8 March 2021) and reduced to PNGK134,967.06 (US\$38,479.17 equiv).
4	Data management - ERP	0	Contract awarded to Pronto Software. Includes variations to 11 April 2022 (total A\$773,520).
4	Data management - SCADA	2,000,000	Will only proceed if sufficient additional financing is secured.
4	PMU Head (D. Boggs)	84,073	Actual Contract cost at end of services.
4	PMU Head (R. Farrell)	451,379	Actual Contract.
4	PMU Head (J. Hughes)	640,000	Actual Contract - J. Hughes
4	Project Management Specialist	749,400	Actual Contract - Adam Searancke. Final payment pending.
4	PMU Contracts Engineer/ Manager	756,200	Actual Contract - Adam Winter.
4	Project Management Specialist No.2	430,000	Actual Contract - N. Deacon
4	Project Management Specialist No.3	430,000	Recruitment ongoing.
4	PMU Environmental Specialist	218,700	Actual Contract - Tim Wrigley
4	Social Safeguards Specialist	233,280	Actual Contract - Wendy Lee
4	WASH Specialist	233,280	Actual Contract - Ken Marshall
4	Communications Specialist	48,308	Actual Contract - Suzanne Taylor
4	Project monitoring and evaluation	218,700	Actual Contract - Priya Chattier

Output	Description	Current Cost Estimate (US\$)	Notes
4	PMU Transition Advisor	86,400	Actual Contract - Mark Waite. Note (30 Nov 2021): includes proposed increase of \$28,800 to provide an additional 36 working days to the contract with an extended contract end date of 31 December 2022.
4	Design and documentation - Phase 1	630,682	Carry over costs which cannot be accommodated by the PRF grant. Cost based on latest contract variation (VO#21)
4	Design and documentation - Phase 2.	1,697,995	Actual Contract - SMEC International.
4	Corporate policies, institutional reform	0	Counterpart funded
4	Vehicles (pick-up trucks for PMU)	27,161	Actual cost - Ela Motors
5	Watershed Protection	2,469,167	Based on cost estimates prepared during the preparation of UWSSSP-AF.
5	Catchment Management Specialist	505,000	Actual contract price (Dr. B. Mohns)
5	Catchment Hydrologic and Water Quality Modelling	326,783	Actual contract price (University of Queensland)
5	Catchment Management and PES	1,286,206	Actual contract price (Nakau Pty Ltd)
	Financing Charges	1,042,000	
	TOTAL	157,324,863	

Note: Revised cost estimate EXCLUDES taxes and duties and land acquisition costs.

Source: Asian Development Bank

Annex 5: WSSVCP Quarterly Report (Jul-Sep 2023)

Solomon Water - Water Supply and Sanitation for Vulnerable Communities Project

(DFAT SW – WSSVCP) Quarterly Progress Report (Progress Report 8) July to September 2023

Solomon Water - Water Supply and Sanitation for Vulnerable
Communities Project

DFAT SW – WSSVCP

Quarterly Progress Report (Progress Report 8)

July to September 2023

24th October 2023

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Annex 1 – M&E Matrix

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1. Introduction

The SW-WSSVCP (the project) is working in Honiara, Auki, Tulagi, Noro, and Gizo, and includes two interlinked **broad goals**:

- Urban communities in the Solomon Islands are less vulnerable because they have improved water security and improved hygiene knowledge and practices, and
- Solomon Water is more sustainable due to increased customer base and improved customer relations.

The project aligns with DFATs strategic objectives for the Solomon Islands and will contribute to:

- achieving **stability** by improving the living conditions of vulnerable households in and around Honiara and selected Provincial towns;
- supporting men and women to be more able to participate in the **economy** by reducing time needs for water collection and household hygiene and ensuring water is available for small scale agriculture, and generating employment in settler communities as people are employed casually for trench digging, operation of the proposed public toilet facilities and other tasks;
- supporting vulnerable households to improve their **health status** through the use of safe clean water for drinking and other household uses and improving hygiene behaviour leading to reduced water and air related illness.

The project aims to achieve this by:

- increasing water availability and the use of effective sanitation (toilets and handwashing) for vulnerable households,
- increasing pandemic preparedness through improved hygiene practices and availability of WASH facilities,
- improving the financial sustainability of Solomon Water by increasing its customer base and its ability to engage vulnerable households,
- reducing water loss (non-revenue water - NRW) through providing water connections to areas with a high proportion of illegal connections,
- improving water quality and supply security through upgrades and fencing to 3 water intakes, and
- providing casual employment in various settler communities.

As shown in figure 1 below, the project includes four interlinked components that are being implemented through a range of modalities including by Solomon Water core staff, by local construction contractors, by casual employment of labourers from the areas being served and by local (or international) non-government organisations.

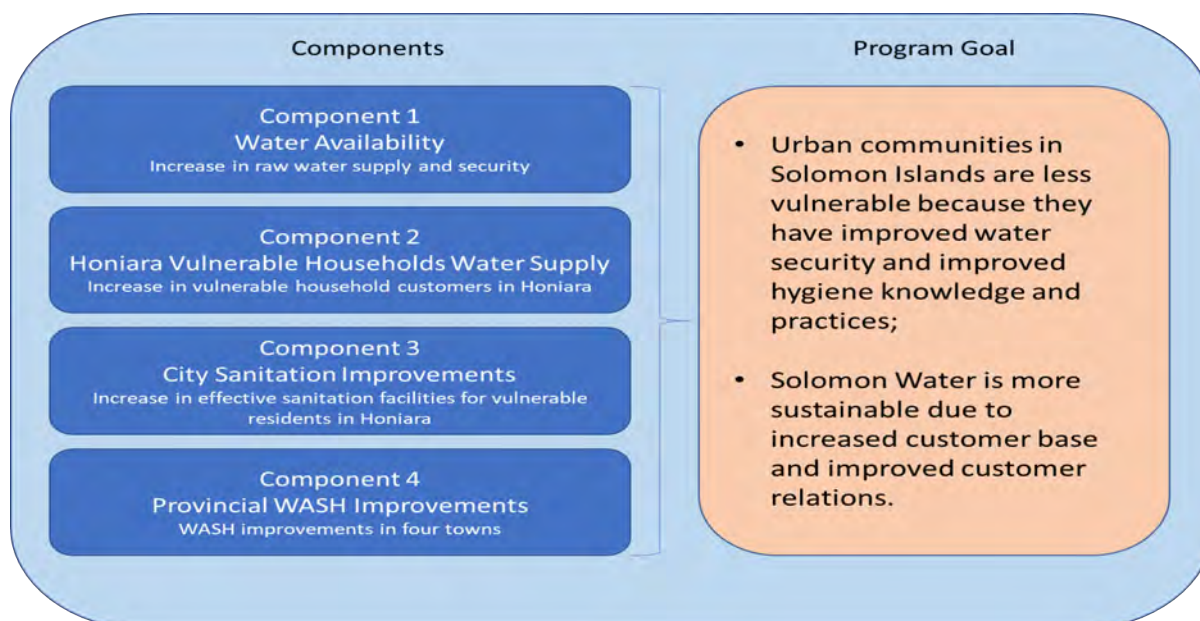


Figure 1 - SW-WSSVCP Framework

2. Component Progress

2.1 Component 1 - Water Availability (COMPLETE)

2.1.1 Description

This component includes source improvements, upgrades, augmentation (boreholes), water storage, and critical fencing to protect both water quality and availability.

This group of activities are an essential part of SW's Water Safety Plan improvements as well as expansion plans and will ensure that both new and existing customers can rely on having a reliable supply of potable water for an increasing number of hours per day.

Component 1 target intermediate outcomes were:

- New boreholes in Panatina to increase water availability and security,
- Increased water availability and security in the Rove and Pt Cruz area of Honiara, and
- Increased water availability and security in Auki.

2.1.2 Achievements

The water availability component is complete with an additional **2.111MLD**. Key achievements include (See M&E Matrix Annex 1):

- Honiara - Rove source is now fully operational and secured with an average yield of **1.9MLD** compared to previous average yield of **1.709MLD**, an increase of **191,000 litres per day**. SW is still planning to increase the yield through the construction of an additional intake line.
- Auki - Kwaibala source is now operational and secured with an average yield of **1.2MLD** compared to a previous average of **0.88MLD**, **320,000 litres per day**. This source can produce a higher yield if additional storage is supplied.

- Honiara – The two new boreholes are fully operational and producing **1.6MLD**. The boreholes can produce more if additional storage is added.

2.1.3 Risks

Key risks included that any new boreholes would not have sufficient capacity and that upgrading works on the existing sources would not result in sustained increased water production. These risks did not materialise.

2.2 Component 2 – Vulnerable Households Water Supply (COMPLETE)

2.2.1 Description

This component involved the construction of new water mains and reticulation lines, and the installation of new household level water connections to customers who currently use poor quality surface water for their household needs.

This component was an essential part of future pandemic responses and ensures far greater accessibility to clean water for vulnerable residents.

Component 2 target intermediate outcomes were:

- Extension of water supply to selected vulnerable communities in Honiara,

2.2.2 Achievements:

Component 2 aimed to provide new water connections for 2620 households in 13 different settlements.

The component is complete and has provided new connections for 3,172 households in the selected settlements. This has included the installation of 66 km of new pipelines providing connections for approximately 22,204 people (average of 7 people per household). This exceeds the planned figure of 2620 and is due to much higher demand than expected and the necessity to ensure those that wanted connections got them, and so avoid any conflict between households. Due to unresolved landowner issues, it was not possible to install household connections in Independence Valley.

Overall customer connections and pipe laying status of each project site is provided in Table 1 below.

Settlement	Target	April - June 2021	July - Sept 2021	Oct - Dec 2021	Jan - March 2022	Apr - Jun 2022	Jul - Sept 2022	Oct - Dec 2022	Total	
		New Connections							New	Pipe Laid
Kombito 1	215	446	386	20					852	24.850
Kombito 2										
Kombito 3										
Independence Valley	27								0	0.290
Mamulele	55				126	91			217	6.001
Green Valley	57				308				308	7.632
Lunga	201								0	4.877
Burns Creek	745					600	308	294	1202	15.490
Henderson	913								0	2.435
Gilbert Camp	55								0	-
Ikavo	96								0	-
Koa Hill	175					307			307	0.852
Namoruka	81				100	186			286	3.609
Total	2620	446	386	20	534	1184	308	294	3172	66.036

Table 1 - New Connections in Vulnerable Settlements

2.2.3 Risks

Key risks to this component included having insufficient water to supply the increased customer base, the rising cost of materials, plant, and labour, and an increase in illegal connections to the newly installed pipelines. Whilst some risks did materialise, particularly the rising costs of materials, these were managed through changes to the scope of the project and the reallocation of funds from one component to another. The increase in water production through component 1 mitigated the risk of insufficient water to supply new customers.

2.3 Component 3 – City Sanitation Improvements (CANCELLED)

2.3.1 Description

The proposed “female friendly” Public WASH Facility was intended to include access for people with disabilities and to support menstrual hygiene management.

Component 3 target intermediate outcome was:

- Construction of one new Public WASH Amenity block in Honiara that services vulnerable residents.

2.3.2 Progress to Date

This component was intended as a partnership with the Honiara City Council (HCC) and Guadalcanal Province (GP).

The facility has been designed and final design documents shared with DFAT. Discussions are ongoing with HCC in relation to us sharing the WASH Facility designs with them in the hope they may be useful in the future.

As agreed with DFAT, and to help address budgetary challenges in other components, and due to a lack of a suitable location being identified by HCC or GP, it was agreed to cancel this component.

2.3.3 Risks

Risks to this component included the lack of appropriate land for a new facility and the level of commitment from GP and or HCC. These risks were realised and have led to the cancellation of the component.

2.4 Component 4 – Provincial WASH Improvements (ONGOING)

2.4.1 Description

Component 4 is working in the Provincial towns of Auki, Tulagi, Noro and Gizo and partnering with Provincial Governments, the RWASH Project, the Ministry of Health and Medical Services, and local NGOs to improve critical WASH knowledge and services.

Component 4 Intermediate Outcomes are:

- Identifying locations that are at high risk for becoming disease transmission hotspots and improving or constructing critical WASH facilities.
- Improving the knowledge of effective sanitation practices and supporting households to improve their own sanitation status.

2.4.2 Progress to Date

WASH assessments were completed for each town and detailed planned improvements in four areas:

- Water supply
- WASH in high-risk settings
- Sanitation improvements (household toilets)
- Hygiene promotion

2.4.2.1 Water Supply and WASH in High-Risk Settings

Water supply improvements and high-risk location WASH improvements have been implemented by local contractors in Gizo, Noro, Tulaghi, and Auki.

Gizo - Complete

The situation in Gizo is different to the other three towns in that Solomon Water does not have an office in Gizo or any water supply responsibilities. However, water is scarce, and residents rely on rainwater and a few springs located around town.

Because of this, water supply improvements were prioritised for Gizo, given that the other three towns have an existing water supply with an existing program of works. Gizo water supply improvements and high-risk WASH improvements work has included five packages.

- Package (1) covers Improvements on the Leoko Pipeline
- Package (2) covers Malakerava 1 Spring Box Upgrades
- Package (3) covers Rainwater Tanks at the Gizo Medical Centre
- Package (4) covers Gizo Primary and Community High School Water Supply
- Package (5) covers Church Handwashing Systems.

Package 1 (Leoko Pipeline) and package 2 (Malakerava Spring Boxes) (complete).

It was planned to use the Leoko pipeline to supply water to villages along the coast of Gizo Island and to the Gizo Pump Station. The condition of the existing pipeline was poor with various blockages and a lack of appropriate air release valves and wash outs. The pipeline has now been improved from the source to the pump station and water is now entering the pump station tank through the Leoko pipeline and is available through the new wash house taps. Currently the pipeline provides water to the communities along the line, as well as fills the Gizo tank (175,000 litres) overnight.

Improvements to the Malakerava spring boxes have been completed and standpipes renovated.

Package 3 (Rainwater Tanks at Gizo Medical Centre) and package 5 (Church Handwashing systems) have been completed.

Package 4 (Gizo Primary and Community High School Water Supply) was awarded to a local contractor and construction completed. All connections to staff houses were installed with gate valves and the school maintenance team will be required to repair plumbing for each staff house and connect these lines into buildings.

Package 5 has been completed and has included church handwashing systems in six churches.



Photo 1 - Gizo Water Supply

Noro Town - Complete

Noro Town high risk WASH improvement works cover:

- Construction of seven church handwashing systems
- Noro Primary School toilet repairs
- Construction of Noro Community High School rainwater tank.

All of the works have been completed.

Tulagi Town – Complete

Tulagi Town high risk WASH improvement works cover:

- Construction of handwashing system at five churches
- Improve WASH facilities at McMahon Community High School
- Install hand washing station at McMahon Community High School
- Reinstall toilets at the western end of main market building
- Install handwashing station at main market building
- Install hand washing station at Tulagi Hospital
- Rehabilitate old toilet block and install hand washing basins at McMahon Primary School.

Auki Town

Auki Town high-risk WASH improvement work covers:

- Handwashing systems at six Churches
- Improve WASH facilities at Auki Community High School
- Improve WASH facilities at Auki Primary School
- Improve WASH facilities at Townend Community High School
- Rehabilitate old toilet block at Alota'a Community High School
- Improve WASH facilities at Sinasu Primary School
- Build rain catchment systems at the betel nut market
- Renovate the ablution block at the Christian Care Centre.

This tender was released to registered SW contractors as a restricted tender with one proposal received. A contract has been signed for the work and construction is on-going (95% complete) with planned completion end of October 2023. A variation was approved to fully complete all work within the scope. Quotation was requested and received from contractor for the remaining work and was approved.

2.4.2.2 Sanitation Improvements

The Provincial Sanitation improvements were planned to be implemented by the Western, Central and Malaita Provincial Governments through their Environmental Health Divisions.

Due to budget limitations and operational challenges ensuring the quality of construction, this activity was cancelled.

2.4.2.3 Hygiene Promotion

The Provincial hygiene promotion activities are being implemented by the Provincial Government through the Provincial Health Promotion Units and Environmental Health Units in Gizo, Noro, Tulaghi and Auki and supported by the Solomon Water WASH team. To date hygiene promotion activities have been completed in all four towns (Gizo, Noro, Tulaghi, Auki).

Key messaging has focused on using a proper toilet and hand washing at critical times. Campaign materials used included posters, the RWASH Hygiene Kit, SW

WASH Z Cards, and Tee shirts. All activities were participatory and included discussion groups and feedback sessions as well as students putting up posters and getting prizes for answering questions.

The Auki Hygiene Promotion Campaign has just been completed from 2nd Oct -15th Oct 2023. The campaign has been conducted in the peri-urban communities, schools, churches and markets in and around Auki. The campaign team consisted of the Auki Provincial HP & EHD staff, Solomon Water and SINU Year 3 practical students in Public Health.

One community leader from Kunu acknowledged Solomon water for this campaign saying it was the first of its kind to be conducted by Solomon water since its establishment in Auki and it should be an ongoing activity for its Auki customers.



Photo 2 - Hygiene Awareness at Alota'a and Aligegeo Schools



Photo 3 - Hygiene Awareness at Auki Catholic Church and Lilisiana

2.4.3 Provincial WASH Improvements - Risks

The escalating cost of materials, freight, and labour have had an impact on the scope of works possible, as has the availability of quality contractors.

It has been necessary to reduce the scope of works in each town to ensure sufficient funds are available.

Funds allocated for sanitation have been used to make up any shortfall in the funds available for water supply, WASH in high-risk settings, and hygiene promotion.

2.5 Summary of Achievements

Whilst there have been a number of unprecedented challenges to the progress of the Project that have necessitated countless delays and the need for changes, there have been significant achievements. Figure 2 below summarises the achievements of the Project, achieved against a backdrop of covid and riots, both making working in communities and settlements particularly difficult.

Significant achievements include the development of an additional two million litres of water each day, and the installation of 3,172 new household connections in informal settlement households, meaning 3,172 new customers.

Other achievements include the extensive WASH work carried out in the four towns of Gizo, Noro, Tulagi, and Auki. This work has focussed on improving access to water for handwashing, increasing hand washing facilities in high-risk settings (churches, schools, markets etc), and supporting key local players to conduct hygiene promotion campaigns that focussed on handwashing at critical times and on using an effective toilet (RWASH, Provincial Hygiene Promotion Units, and provincial Environmental Health).

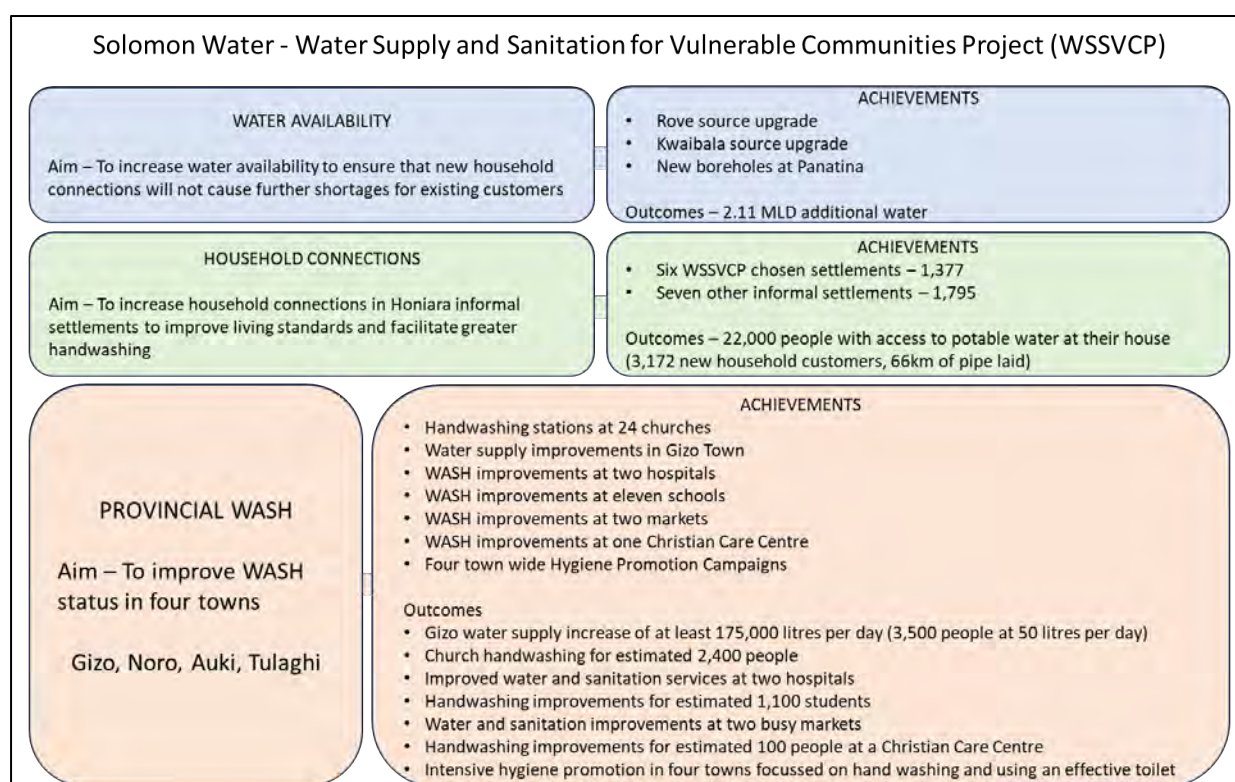


Figure 2 - Summary of Achievements

3. Budget and Expenditure

Table 2 below shows how the WSSVCP funding has been allocated as reflected and agreed previously through Progress Report 3.

Component	Original Estimated Cost (SBD)	Updated Estimate PR2	Updated Estimate PR3
1. Water Availability	9,250,000	9,250,000	13,413,496
2. Honiara Vulnerable Households Water Supply	18,300,000	14,321,220	11,505,081
3. City Sanitation Improvements	1,200,000	1,200,000	850,000
4. Provincial WASH Improvements	5,998,780	5,998,780	5,001,423
TOTAL	34,748,780	30,770,000	30,770,000

Table 2 VCWSSP Budget

Component 1 – Water Availability - Given the ongoing increase of the cost of both materials and services, and changes to this component, including the move to

Panatina for the boreholes instead of Kombito, this component has cost SBD 12,832,072.

Component 2 – Honiara Vulnerable Household Connections – Given the ongoing increase of the cost of materials and services, and the greater than expected demand for connections, as well as the need to avoid causing conflict by giving some houses connections and not others, this component has now installed 3172, more than the original figure of 2620. This component is complete and has cost SBD 13,656,604.

Component 3 - City Sanitation Improvements included an allocation of SBD 850,000 to construct one WASH Facility. As discussed above this component has now been cancelled.

SW have worked closely with ESW Architects to produce the design and construction drawings for the Facility, these are now complete and are attached as Annex 3.

Costs incurred were SBD 163,749. This includes both SW staff costs and fees paid to ESW Architects.

Component 4 - Provincial WASH Improvements - Component 4 includes the following activities:

1. Water supply improvements
2. High Risk Settings WASH improvements
3. Sanitation improvements (toilets)
4. Hygiene promotion

Significant progress has been made in activities 1, 2 and 4 including the Gizo Leoko pipeline, various WASH in High-Risk Settings contracts completed for critical WASH improvements in the four towns, and hygiene promotion programs developed and implemented in Gizo, Tulaghi, Noro and Auki. Total cost of the component is SBD 3,651,980.

Agreed Reallocations

Given the increased expenditure in the water availability and household connections components, the following reallocations were agreed.

These include:

1. City Sanitation Improvements

Given the difficulties in identifying a suitable location close to a large settlement population, and the apparent lack of commitment from either HCC or GP, as well as escalating costs in other components, this component has been cancelled.

Agreed reallocation is as follows:

- WASH Facility
 - Budget SBD 850,000
 - Costs to date SBD 163,749

- **Reallocate** **SBD 686,251**

2. Water Supply for Towns

Gizo water supply improvements have been completed and are critical given the lack of a functioning water supply in that town. These improvements will support any future Gizo water supply project and ensure an additional raw water source beyond that proposed in the new Gizo water supply project design. The other three towns are currently benefitting from other work under SW normal business and UWSSSP.

It is proposed to reallocate the following funds:

- Auki SBD 631,339
- Tulaghi SBD 252,834
- Noro SBD 435,752
- **Reallocate SBD 1,319,925**

3. Household Sanitation

There are funds in the budget for household sanitation, but we haven't yet made significant progress with each Provincial WASH department in terms of their commitment or a workable implementation model. In addition, it could be argued that this is less of a covid initiative, which focuses more on handwashing and water supply and less on household sanitation.

Agreed reallocation is as follows:

- Gizo SBD 268,000
- Auki SBD 300,000
- Tulaghi SBD 140,000
- Noro SBD 210,000
- **Reallocate SBD 918,000**

In Summary

- WASH Facility (Component 3) - SBD 686,251
- WS in Towns (Component 4.1) - SBD 1,319,925
- Sanitation (Component 4.3) - SBD 918,000

TOTAL to reallocate to Components 1 & 2 SBD 2,924,176

The current and proposed revised programmed expenditure is shown in Table 3 below.

ITEM	Budget	Spent/Planned	Balance
C1. Water Availability	13,413,496	12,832,072	581,424
C2. Vulnerable Households Connections	11,505,081	13,656,604	- 2,151,523
C3. Citywide Sanitation	850,000	163,749	686,251
C4. Provincial WASH Improvements	5,001,423	3,651,980	1,349,443
TOTAL	30,770,000	30,304,404	465,596

Table 3 - Expenditure as of 19th October 2023

Ongoing activities include final WASH in High-Risk Settings improvements in Auki.

Annex 1 – M&E Matrix

	Outcomes	Indicator	Data collection method & frequency	Risks	Who will collect and analyse the data	Baseline	Target	Progress
Broader development objective								
	Urban communities in Solomon Islands are less vulnerable because they have improved water security and improved hygiene knowledge and practices.	Improved WASH status, including pandemic preparedness, of residents of Honiara, Auki, Tulagi, Noro, and Gizo.	SW Annual Reporting Project Completion Report	Cultural attitudes towards paying for water mean that customers do not pay their water accounts and so are disconnected. Households in settlements do not believe that effective sanitation is worthwhile investment and continue to use ineffective toilet facilities or to defecate in the open.	SW Management	Currently 80,000 residents of Honiara have access to clean water for 22 hours per day. Vulnerable households do not have access to Public WASH Facilities close to home.	98,340 residents of Honiara have access to clean water for 22.5 hours per day. Honiara vulnerable households have access to two new Public WASH Facilities 150 Vulnerable households in four Provincial towns have increased access to clean water and sanitation.	
	Solomon Water is more sustainable due to increased customer base and improved customer relations	Total number of new customers. Annual revenue.	SW Monthly Reporting Project Qtrly Reports	Significant weather events cause supply disruptions to supply. Poor uptake of new customers.	SW Management	Number of existing customers is 13,500 Annual revenue is SBD 95m	Total Customers - 16,270. Revenue increases by SBD 2.4m due to new connected customers	
End-of-program								
Outcomes	Outputs	Indicator	Data collection method & frequency	Risks	Who will collect and analyse the data	Baseline	Target	Progress
The supply of clean water is improved in Honiara and Auki	Water Availability - Increased water availability for residents of Honiara and Auki	The quantity of clean water available in Honiara and Auki. The number of water sources that are secure and protected in Honiara and Auki.	Water production figures to be collected monthly. SW regular monthly reporting. Project Qtrly Reports	Vandalism at sources. Insufficient raw water available. Significant weather events cause disruptions to supply.	SW Technical staff. SW Management	Total current water production for Honiara is 32 MLD. Current average hours per day of supply in Honiara is 22hrs. Current water production from Kwaibala is 1.0 MLD.	Honiara production is 33.3 MLD. Honiara 22.5 hours per day. Kwaibala 1.2 MLD	Fencing for Rove completed Rove weir upgrade completed Kwaibala source upgrade works complete Panatina boreholes complete Rove now producing 1.9MLD Kwaibala now producing 1.2MLD Panatina now producing 1.6MLD
More people have access to clean water	Vulnerable Households Water Supply - Increased number of vulnerable households who have access to water and sanitation services	The number of vulnerable households in Honiara who have access to clean water	New customer records SW Regular monthly reporting Project Qtrly Reports	Poor uptake of new connections. Insufficient raw water. Illegal connections.	SW Technical staff. SW Management	Honiara (Vulnerable Households) 0 new connections	19,390 additional people have access to clean water (2770 new connections (2620 in Honiara and 150 in Provincial towns at 7 people per house))	Approximately 22,204 additional people with access to clean water 3172 households
More people have access to sanitation facilities	Sanitation Improvements - Increased number of vulnerable residents who have access to effective "female friendly" sanitation facilities through the construction of two new Public WASH Amenities and improved household level toilets	The number of households who have access to effective sanitation facilities	Public WASH Facilities usage records HCC Reporting Project Qtrly Reports	Public WASH Facilities culturally not accepted. Customers not willing to invest in improved sanitation.	SW Technical Staff. SW Management	Honiara currently has 4 public toilet facilities for Honiara	Two additional public WASH Facilities 200 people per day using new WASH Facilities in Honiara 2,000 people live within 500m of a new WASH Facility 150 households have access to improved sanitation facilities in Auki, Noro, Tulaghi, and Gizo	Component cancelled Design work complete
Solomon Water is efficient and sustainable	SW has an increased number of customers and customers are more responsible in their use of water	Total number of new customers Annual revenue Reduced non revenue water	SW Monthly reporting Project Qtrly reports	Vulnerable customer households do not want to pay for a formal household water connection New customers do not pay their water accounts Water theft increases due to extension of water pipelines into Settlement areas	SW Technical Staff. SW Management	Number of existing customers is 13,500 Annual revenue is SBD 95m NRW is currently 56%	Total number of customers increases to 16,270 Annual revenue increases by SBD 2.4 m NRW decreases to below 50%	At least 16,672 total customers
Intermediate								
Outcomes	Outputs	Indicator	Data collection method & frequency	Risks	Who will collect and analyse the data	Baseline	Target	Progress to December 2022
1.0 Water sources in Honiara and Auki are secure and protected	1.1 Increased water availability in the Kombito area of Honiara	Increased water production capacity in the Kombito area	Monthly Water Production reporting Project Qtrly Reports	Poor borehole capacity. Land issues on site of boreholes	SW Technical staff. SW Management	Currently zero	1 MLD	Land issues mean that construction of these boreholes was shifted to Panatina. Now complete and producing 1.6MLD
	1.2 Increased water availability in the Rove / Pt Cruz area of Honiara	Increased water production capacity at the Rove intake	Monthly Water Production reporting Project Qtrly Reports	New intake works do not result in increased production.	SW Technical staff. SW Management	1.7 MLD	2.0 MLD	Rove weir upgrade complete. Yield is now 1.9MLD with further improvements expected.
	1.3 Increased water availability in Auki	Increased water production capacity at the Kwaibala water source	Monthly Water Production reporting Project Qtrly Reports	New intake works do not result in increased production.	SW Technical staff. SW Management	0.88 MLD	1.2 MLD	Upgrade works complete. Yield is now 1.2MLD.
2.0 Vulnerable households in Honiara have Improved access to clean water	2.1 Extension of water supply to selected vulnerable communities in Honiara	Number of vulnerable new customers in Honiara that have access to clean water	Monthly Water Production reporting Project Qtrly Reports	Poor uptake of new connections. Insufficient raw water. Illegal connections.	SW Technical staff. SW Management	Existing Households - 451 Kombito 1,2,3 - 176 Independence Valley - 55 Green Valley - 32 Mamulele - 6 Lunga - 14 Burns Creek - 13 Henderson - 51 Gilbert Camp - 6 Ikavo - 53 Koa Hill - 18 Namaruka - 27	Target New Households - 2620 Kombito 1,2,3 - 215 Independence Valley - 27 Green Valley - 57 Mamulele - 55 Burns Creek - 745 Henderson - 913 Gilbert Camp - 55 Ikavo - 96 Koa Hill - 175 Namaruka - 81	Kombito 1,2,3 - 852 new customers Independence Valley 0 Mamulele 217 new customers Green Valley 308 new customers Burns Creek 1202 new customers Koa Hill 307 new customers Namaruka 286 new customers 3172 new customers
3.0 New public WASH facilities are available	3.1 Two new "female friendly" Public WASH Amenity blocks in Honiara that service vulnerable residents	Two new Public WASH Facilities constructed.	Project Qtrly Reports	Lack of land for locating new facilities. Lack of commitment from HCC.	SW Technical staff. SW Management	Honiara currently has 4 public toilets	Two new public WASH facilities 100 people per day using each facility in Honiara.	Ongoing discussion has not identified any suitable locations. Final design complete Component cancelled.
4.0 Provincial households have Improved WASH facilities	4.1 Extension of water supply to vulnerable households in Auki, Tulagi, Noro and Gizo	Number of new customers that have access to clean water Water security improvements in Gizo	Project Qtrly Reports	Poor uptake of new connections. Insufficient raw water. Illegal connections.	SW Technical staff. SW Management	Auki - 0 new connections Tulagi - 0 new connections Noro - 0 new connections Gizo - Water not available in town	Auki - 50 new connections Tulagi - 20 new connections Noro - 30 new connections Gizo - Water supply improvements	Gizo water supply improvements completed on the Leoko pipeline and Malakerava springs. Leoko pipeline now delivering at least 175,000 litres to Gizo per day as well as providing water for communities along the pipeline. Up to 1,750 households in Gizo can access 100 litres per day, in addition to households along the pipeline. Ongoing improvements to Leoko to ensure water reaches the wash house. Water supply improvements in other towns now being done through SW main works program. Savings applied to WASH in High Risk Settings
	4.2 Residents of Auki, Tulagi, Noro and Gizo have improved knowledge of effective sanitation practices and improved WASH facilities	Number of residents who have invested in improved sanitation facilities.	SW Monthly Reporting Project Qtrly Reports	Lack of sanitary products available. Lack of demand for improved toilets. Lack of water for handwashing.	SW Technical staff. SW Management	Auki - 0 Tulagi - 0 Noro - 0 Gizo - 2	Auki - 50 new or improved toilets Tulagi - 20 new or improved toilets Noro - 30 new or improved toilets Gizo - 50 new or improved toilets	Hygiene promotion campaign completed in Gizo, Noro, Tulagi, Auki Sanitation activities cancelled and funds applied to WASH in High Risk Settings
	4.3 High risk locations in Auki, Tulagi, Noro and Gizo identified, and WASH facilities installed/improved in priority locations	Effective WASH facilities at selected high risk settings constructed / renovated.	Provincial WASH Project reporting. Project Qtrly Reports	Lack of Provincial commitment. Lack of appropriate locations to construct or improve public WASH facilities.	SW Technical staff. SW Management	Currently there are no public WASH facilities that include toilets, washing facilities, and water for purchase.	At least one high risk location in Auki, Gizo, Tulaghi and Noro has upgraded WASH facilities that service vulnerable residents and water available for purchase.	WASH facilities upgraded at schools, churches, hospitals in Gizo, Tulaghi, and Noro. Upgrades ongoing for Auki.
5.0 Services delivered by Solomon Water meet the needs of Solomon Islanders	New water infrastructure is constructed to meet the needs of 2770 new customer households Water availability is improved in both quantity and time	Number of new connections Increased water availability	SW Monthly Reporting Project Qtrly Reports	Vulnerable customer households do not want to pay for a formal household water connection Water theft increases due to extension of water pipelines into Settlement areas and NRW remains high	SW Technical staff. SW Management	Solomon Water currently has 13,500 customers Number of hours when water is available in Honiara households is currently 22 hours	3172 new customer households have clean water connections Annual revenue of Solomon Water increases by \$2.4 m Water availability increases to 22.5hrs	3172 new connections

Annex 2 – Risk Matrix

1 – Low, 2 – Med, 3 - High

Risk	Outcome	Likelihood/ Impact	Mitigation Measures
Social Risks			
Community jealousy or disagreement regarding which settlements should be prioritised	<ul style="list-style-type: none"> Conflict between people and leaders of different Settlements and HCC/SW 	1/2	<ul style="list-style-type: none"> A rigorous assessment has been conducted to ensure Settlements are selected that are the most in need. This process has been conducted with the full involvement and endorsement of HCC. Review if significant issues develop
Community expectations are not met (for example delays in water connections).	<ul style="list-style-type: none"> Residents disillusioned and less likely to pay for water initially. 	1/1	<ul style="list-style-type: none"> Involve residents in paid work to install new pipelines in their own areas. Effective & ongoing engagement communication to ensure realistic expectations. Communication plan to include strategy & messaging in relation to expectations.
Community members do not support the use of public toilets or WASH facilities	<ul style="list-style-type: none"> WASH Amenities not used or properly maintained 	2/2	<ul style="list-style-type: none"> SW WASH Household Survey was conducted and included questions on attitudes towards public WASH facilities. Household Survey included questions particularly targeted at women to ensure facilities are located, designed, and managed to maximise use by women and girls.
Financial Risks			
SW has not recently been involved in accounting and financial reporting of DFAT-financed projects.	<ul style="list-style-type: none"> Delays in financial reporting. Reporting not to DFAT requirements. 	1/1	<ul style="list-style-type: none"> Staff of SW to undergo induction on DFAT procurement and disbursement processes prior to start of project implementation and regularly as part of their on-the-job training.
Environmental and Climate Risks			
Erosion, land degradation due to	<ul style="list-style-type: none"> Erosion of land in Settlements causing 	1/2	<ul style="list-style-type: none"> All construction activities to comply with existing environmental guidelines and requirements including for soil disruption and storage during trenching and for clean-up standards post construction.

commencing works in unserved areas	potential flooding or land degradation.		<ul style="list-style-type: none"> ● Planning and implementation of construction works to consider rainfall and flood risks
Technical			
Intake works do not increase production	<ul style="list-style-type: none"> ● Water availability does not increase. 	1/2	<ul style="list-style-type: none"> ● Existing intakes will be upgraded to ensure increased storage and flow. ● Boreholes will be located after careful hydrogeological consideration and testing
Proposed preferred new WASH Amenity blocks located away from existing sewerage system.	<ul style="list-style-type: none"> ● Increased cost and time to implement new facilities 	1/1	<ul style="list-style-type: none"> ● WASH facilities will include septic tanks where necessary and agreements with HCC on regular emptying and maintenance.
Health and Safety Risks			
Insufficient health and safety prevention measures (e.g. COVID) in place	<ul style="list-style-type: none"> ● Increased chance of serious harm, injury, or illness. 	1/3	<ul style="list-style-type: none"> ● Implementing partners required to have a health and safety policy, maintain a health and safety risk register, and implement mitigation actions. ● SW has a well-developed H&S management system
Institutional Risks			
SW staffing capacity	<ul style="list-style-type: none"> ● Existing staff are already fully committed and find it difficult to dedicate sufficient time to the new project 	1/2	<ul style="list-style-type: none"> ● VCWSSP to be supported by existing international Advisers, newly recruited WASH Officer, as well as recruitment of a new local Project Manager. ● Some critical construction and hygiene promotion activities to be sub-contracted
Lack of support from central government, and/or HCC	<ul style="list-style-type: none"> ● Delays in financial support. ● Barriers or delays in achieving the outcomes. ● Government policies (e.g. might inhibit project outcomes. 	1/2	<ul style="list-style-type: none"> ● Actively engage the relevant SIG ministries. ● Funds to be received before implementation. ● Partnership approach with HCC including their endorsement of key activities.

Lack of support from Provincial government	<ul style="list-style-type: none"> ● No support for WASH work including locating high risk settings, new connection areas, or hygiene promotion. 	1/2	<ul style="list-style-type: none"> ● Actively engage Provincial government at the highest level. ● Actively engage Provincial RWASH teams. ● Actively engage local NGOs in hygiene promotion activities.
Insufficient local capacity (e.g. within SW Local Contractors, or NGOs) to deliver the project during the period	<ul style="list-style-type: none"> ● Unable to achieve expected outcomes. ● Delays in implementation. 	1/2	<ul style="list-style-type: none"> ● Engage local and/or regional WASH partners with proven capacity to construct water infrastructure and implement hygiene promotion.