



## URBAN WATER SUPPLY AND SANITATION SECTOR PROJECT (UWSSSP)

Solomon Islands Water Authority

### Quarterly Progress Report Q3 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
HNWS	Honiara Water Supply

HNWW	Honiara Wastewater
IA	Implementing Agency (Solomon Water)
IEE	Initial Environmental Examination
IR	Involuntary Resettlement
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
PER	Public Environmental Report
PES	Payments for Ecosystem Services
PISI	Plan International Solomon Islands
PMEF	Project Monitoring and Evaluation Framework
PMU	Project Management Unit
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
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 service, 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 twelfth Quarterly Progress Report and covers the third quarter (Q3) of 2023, 1<sup>st</sup> July through 30<sup>th</sup> September (inclusive).

The progress towards achieving project objectives in Q3 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 30<sup>th</sup> 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 underway at Tasahe. Site preparation and earthworks commenced at Titinge.
- 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 18<sup>th</sup> December 2023.
  - Contract preliminaries well progressed (eg. insurance, limited site office facilities, ordering materials) although relatively little substantive permanent works were completed during the reporting period. Some 1.1km of pipe has been laid at Panatina Ridge 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 5<sup>th</sup> May 2022. Intended Completion Date 29<sup>th</sup> June 2023.
  - Contractor has progressed most preparatory items, incl. site office and sediment controls, and commenced site earthworks.
- Honiara Wastewater Ranadi Rd (Ela Motors) to Goodwood Outfall Sewer Works – 1.2km of Sewer Pipes (DN200 to DN 700) and Associated Manholes
  - Contract awarded to Pacific Engineering Projects Ltd (PEP) on 4<sup>th</sup> October 2022 for USD 6,044,066. Intended Completion date 28<sup>th</sup> October 2023.
  - Preparatory site works including site office, and delivery of pipes 90% completed. By October 2023 the contractor had installed some 140m of trunk sewer.
- Provincial Water Supply (WS) Upgrades (Noro, Munda, Gizo and Tulagi)
  - Noro WS Upgrade was advertised for tender in early July and bids closed on 11<sup>th</sup> September 2023. One bid was received and the bid evaluation substantially completed within Q3.
- Under component 5 Watershed Protection (Global Environment Fund (GEF) financed), water quality monitoring equipment was maintained and data collected at seven sites. Although the consultant (U of Q) has completed its field work and reporting, the monitoring and telemetry equipment remains in place and functioning, and is proving useful to SW's Operations staff.
- Coordination between key stakeholders for catchment management was improved through site visits, consultations/workshops and cooperation in various fields of work (nursery production, assessment of logging applications, settlement expansion etc.) Vetiver grass planting is now being increasingly used for erosion protection at SW catchments and other sites (currently at Tuvaruhu Yard, Kongulai Catchment and Rove Source)
- An international consultant (Nakau) and a local NGO (Live and 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.

## 2 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 28<sup>th</sup> 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 25<sup>th</sup> 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 UWSSSP project will be implemented over seven years and is scheduled to be completed by 31 December 2028.

The effectiveness of the EU grant declared on 28<sup>th</sup> 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.

### 2.1 Project Readiness Financing Grant (PRF) Component

#### 2.1.1 Implementation Progress

The ADB Project Readiness Financing Grant (PRF) mechanism has 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.

##### 2.1.1.1 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 31<sup>st</sup> 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. There is an outstanding balance of this amount with one final payment to be disbursed 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 2-1 PRF delivery schedule and cost estimates*

<b>Project</b>	<b>Status as at 31<sup>st</sup> October 2023</b>	<b>Contract Duration (Award to Completion) <sup>(1)</sup></b>	<b>Construction Cost Estimate USD <sup>(2)</sup></b>
Honiara Water Supply – Trunk Mains	Construction period	18 months (16 Jun '22 - 18 Dec '23)	7,781,780
Honiara Water Supply – Service Reservoirs (Re-bid)	Construction period	18 months (3 May '22 – 4 Nov '23)	7,105,695
Honiara Wastewater – Ranadi Rd to Goodwood Outfall Sewer Works	Construction Period	12 months (Oct '22 – Oct '23)	6,044,067
Honiara Wastewater – National Referral Hospital (NRH) Sewer Works and Outfall	Deferred until additional funding is secured <sup>(6)</sup>	TBC	13,200,000
Honiara Wastewater – Ranadi Sewer Works and Outfall <sup>(4 &amp; 5)</sup>	Expected tender release June '24 <sup>(1 &amp; 6)</sup>	24 months (Aug '24 – Jul '26)	23,800,000
Provincial Water Supply (PWS): Noro <sup>(3 &amp; 4)</sup>	Tenders closed September '23 <sup>(1)</sup>	24 months (Aug '24 – Jun '26)	6,000,000
Provincial Water Supply (PWS): Tulagi	Deferred pending re-design	TBC	4,400,000

Project	Status as at 31 <sup>st</sup> October 2023	Contract Duration (Award to Completion) <sup>(1)</sup>	Construction Cost Estimate USD <sup>(2)</sup>
Provincial Water Supply: Gizo <sup>(3 &amp; 4)</sup>	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

<sup>(1)</sup> 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).

<sup>(2)</sup> Construction cost estimates include escalation for foreseeable factors.

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

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

<sup>(5)</sup> Excludes the cost of Honiara Wastewater – Ranadi Rd to Goodwood Outfall Sewer Works, funded by SIG.

<sup>(6)</sup> 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 envisaged.

**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 is expected to be made in Q4 2023.

#### **2.1.1.2 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.



### 3 PROGRESS OF UWSSSP SPECIFIC PROJECT COMPONENTS

One-page summaries of five ongoing UWSSSP physical works contracts are shown in **Annex 1: Sub-Project Summaries**.

#### 3.1 Component 1 – Secure and Safe Urban Water Supplies

##### 3.1.1 Honiara Water Supply Improvement

###### 3.1.1.1 Cash Water Change out and Augmentation

Trials for prepaid meters from Lesira-Teq, the new South Africa-based supplier, have been 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.

###### 3.1.2 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). Contract awarded to REAN-PCS Joint Venture of India in April with a Start Date of 5<sup>th</sup> May 2022 and the Intended Completion Date of 29<sup>th</sup> June 2023. Progress has been delayed by the contractor leading to fundamental breaches of Contract being identified.

Solomon Water Board of Directors was notified of the breaches of Contract in August 2022 but opted to continue with REAN at that time. The construction stage should have been fully completed by 29th June 2023. Instead, 17 months into the project Rean is still working on mobilisation of staff, procurement of materials for works, site establishment and obtaining Contractors' All Risk (CAR) insurance. Construction activities are much delayed and the quality of work is consistently less than contractually required. Only site preparation activities, including sediment controls, site office and some earthworks, have been undertaken.



*Figure 1 Excavation Works at Kongulai WTP Site (Photo 17/11/23)*

In response to Rean’s chronic under-performance, and to bring matters to a head, a notice (NTC 078, 2/06/23) was issued in which SW offered Rean the opportunity to show cause why the contract should not be terminated. Following Ministerial Direction (and Donor Partner No Objection) the contractor was offered a 12 month extension of time from 29<sup>th</sup> June 2023 to 29<sup>th</sup> June 2024 subject to conditions. The contractor did not accept SW’s conditions and the extension was not granted. By the end of Q3 the contractor’s non-performance was continuing and SW was again seriously considering whether termination of the contract might become necessary.

### 3.1.3 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 and 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 16<sup>th</sup> June 2022 and with construction originally intended to be completed by 18<sup>th</sup> 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. Limited pipelines were installed during Q3, namely various sections totalling some 1.1km in Panatina.



Figure 2 Trenching at East Kola (Photo 29/09/23)



*Figure 3: Trenching at Lower Tanakake Road, Panatina (Photo 7/09/23)*

The ADB-funded 4-lane road upgrade works 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.



*Figure 4: Compacting backfill, Panatina (Photo 2/08/23)*

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 mitigate the risk of it leading to delay claims from PEP. The mitigating 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.

### 3.1.4 HNWS – Service Reservoirs

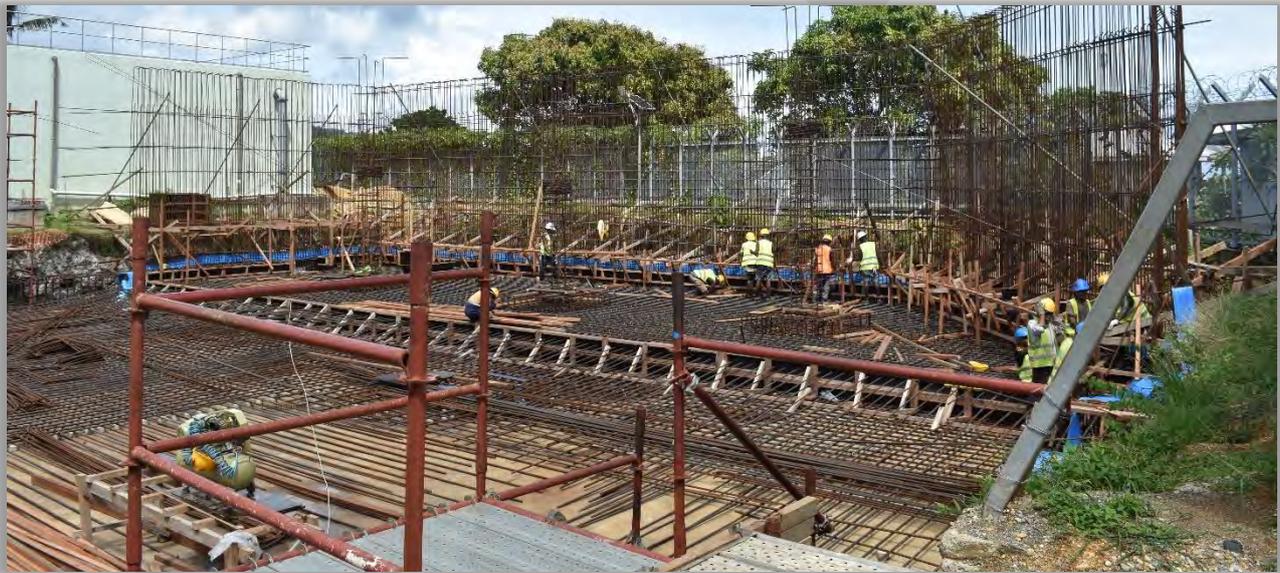
Accepted Contract Amount: USD 7,105,695 (construction)

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 3<sup>rd</sup> May 2022 and an originally expected completion date of 4<sup>th</sup> November 2023.



*Figure 5: Steel Fixing and Formwork at Tasahe Reservoir Site (Photo 1/11/23)*

However PEP JV's progress has been disappointing and is now far behind schedule. During the quarter PEP JV was still working on mobilisation of staff, procurement of materials for works, site offices, laydown areas and staff accommodation. Progress was minimal during 2022/early 2023, the works are likely to finish 12 months behind the original schedule, with no permanent concrete poured by end of Q3. PEP JV's senior management representative (Mr Shishir Malaviya) visited Honiara on 7<sup>th</sup> and 8<sup>th</sup> August and made renewed promises of increased effort, which SW is now monitoring going forward.



*Figure 6: Panatina Tank Foundation (Photo 2/08/23)*

SW has constructed a temporary chlorination dosing plant for the Kongulai transmission main within the Tasahe reservoir compound and is responsible for its operational needs until such time as the Kongulai Water Treatment Plant is commissioned.

### **3.1.5 Provincial Water Supplies**

#### **3.1.5.1 Tulagi Water Supply Upgrade**

*Contract Estimate: USD 4.3m (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.

#### **3.1.5.2 Noro Water Supply Rehabilitation and Upgrade**

*Contract Estimate: USD 3.0m (Construction)*

*Estimated Construction Period: 24 months*

Detailed design was substantially completed by SUEZ in 2022. Noro WS Upgrade has been tendered, and bids closed on 11th September 2023. One bid was received and tender evaluation was substantially completed during Q3. Contract award has been recommended, although commencement of physical works on site may be delayed until mid-2024 due to unanticipated land owner issues.

### **3.1.5.3 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 No Objection and bidding will be called once funding is confirmed.

### **3.1.5.4 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 31<sup>st</sup> 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.

### **3.1.6 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.

## **3.2 Component 2 – Effective, Efficient and Safe Urban Sanitation Services**

### **3.2.1 Honiara Wastewater (HNWW) Trunk Sewers & Pump Station, Outfalls & Outfall Pump Stations**

Since the EU-ADB co-financing agreement was substantially delayed (and 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.

#### **3.2.1.1 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 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 21<sup>st</sup> December 2022. Some 100m of sewer main has been installed between Ela Motors and the sea front. Poor performance by the contractor PEP combined with land owner issues near the sea outfall, prevented this sub-project being commissioned in time to serve the South Pacific Games in November 2023. However the adverse consequences of non-completion mitigated through SW's contingency plan of implementing an alternative temporary pumped main through KGV School, at a cost to SIG of SBD 1.0m.



*Figure 7: First section of pipe laid, 24m near Ela Motors (Photo 16/08/23)*

PEP's senior management representative (Mr Shishir Malaviya) visited Honiara on 7<sup>th</sup> and 8<sup>th</sup> August and made renewed promises of increased effort, which SW is now monitoring going forward.

#### **3.2.1.2 (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.

### **3.3 Component 3 – Enhanced Awareness of Hygiene and Water Issues and Sustained Improved Hygiene Behaviour**

#### **3.3.1 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 is being implemented by Plan International and Live and Learn and will conclude by the end of September 2023. A second phase of the project has been agreed with Plan/Live and 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:

#### **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 the phase 2 of the project

#### **Key sanitation activities implemented include:**

- Ongoing sanitation promotional activities on having a good, clean and fresh toilet continued on various media outlets as through the National Radio Broadcaster (SIBC & Barava FM), Posters etc and pre-planning of the sanitation activities for the project phase 2 is ongoing
- Established good relationship with a number of plumbers and hardware stores in communities and fabricators – people making slabs, etc
- Ongoing discussions on the sanitation funding scheme and review of the sanitation loan application by Plan International and Solomon Water. It is now likely that the Sanitation Loan Scheme will not go ahead, this is due to a lack of funds and Solomon Water not yet having the staff capacity to manage the scheme.
- Ongoing work to complete toilet construction guidelines (Sanitation Manual Volume 2)

### **Package 3 – WASH in Schools (WinS)**

During this reporting period staff have completed an update of the Schools Assessment Report which assesses the water, sanitation and hygiene status in schools that service the six settlements. The WinS design document has been reviewed and adapted to reflect the current WASH status of schools and shared with donor partners for their further review and approval.

The update of the WinS Assessment focused on whether any of the target schools had received any assistance in the last three years and during the COVID pandemic period, most schools responded that they have not received any assistance at all.

Some of the schools have made minor improvements to their WASH facilities, these have been funded through their own school funds.

The updated 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 early 2024.

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

Work has continued during this period on the DFAT-supported Water Supply and Sanitation for Vulnerable Communities Project (WSSVCP). 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 during the period. 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 period has seen the completion of a range of new and renovated WASH facilities in the four towns of Gizo, Noro, Auki, and Tulagi. All work is planned to be completed by the end of the year.

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, Noro, Tulagi and Auki.

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.

### **3.3.3 National Media Campaign-Hygiene Promotion-Core Business**

The implementation of the 2023 Hygiene Promotion campaign awareness with the All Saints Women’s group was conducted in Q1 2023 while the St Barnabas women’s group awareness was conducted on the 14th June 2023. s

The awareness talks cover topics such as the importance of hand washing at critical times with clean water and soap, and of using an effective toilet and other topics detailed in the Z card. The Mothers Union members expressed great appreciation for the awareness.

With support from the Regional WASH TA the WASH Z Card distribution is ongoing at the following offices:

- Noro Customer care office
- Tulagi Customer care office

The Z Cards are also being distributed through Solomon Water BJS office, Gizo Provincial Health Promotion Divisions, HCC Health Promotion Units, WASH partners Plan International and Live & Learn, schools, 6 targeted WASH project settlements and also during the awareness campaign with the church women’s group.

## **3.4 Component 4 – SW is financially and Technically Sustainable**

### **3.4.1 Financial Management System Replacement**

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

### **3.4.2 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.

### **3.4.3 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 tariffs. SW received approval from Government to increase tariffs by 4.5%, 9.5% and 7.0% in the current and following two years.

### **3.4.3.1 Tranche 2 Design**

The contract for the Detailed Engineering Design Phase 2 was executed on 2<sup>nd</sup> 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).

### **3.4.3.2 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 to the existing Burns Creek rubbish tip.

## **3.5 Component 5 Watershed Protection (GEF financed)<sup>1</sup>**

Work during Q3 focused on the following inputs for the three project sub-outputs.

### **3.5.1.1 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 Q3 the UQ team substantially completed Home-Office-based reporting tasks without further collection of new 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.

During Q3 the UQ team substantially completed Home-Office-based reporting tasks without further site visits in Solomon Islands.

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

### **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 has been established by UQ and is providing live near-real time access to the hydrological and water quality monitoring data from Lungga, Tamuni, Kongulai Source, Kovi Sinkhole and Kovi Spring. It is noted this is an experimental proof of concept but has been neither designed, constructed nor funded as ongoing SW infrastructure. Nevertheless the near real-time availability of rainfall, stream flow and turbidity data 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 (Approx. 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 (GSM mobile) data links and make decisions on which stations should continue to provide valuable data for operations and future planning.

### **3.5.1.2 Output 2: Watershed Governance Improved**

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

Throughout Q3, 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 engaged 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 commenced trial planting of vetiver grass to complement other ground stabilisation measures at two areas at risk of erosion.

#### **1. Tuvaruhu Depot Erosion Protection**

In conjunction with sheet piling and tetrapods SW decided to plant vetiver grass for protection of the eroded slope between the Solomon Water depot fence and Mataniko River. In high flow events the river damages and washes away the gravels/sand mix compacted towards the fence. Nursery vetiver slips were planted during the months of July and August to stabilise the remaining exposed gravels/sand surfaces after completion of the engineering works. See photos below.



*Figure 8 Tuvaruhu Erosion Protection After and Before Vetiver Grass Planting  
(Photos 28/02/23 Left & 29/11/23 Right)*

## **2. Chubina Landslide Repairs**

The temporary built of barrier stages was completed by Kongulai landowners on June 2023. The work that they have done included covering the ground with geotextile mat, unstructured stone weir just around the sinkhole western entrance and spoon drain. Subsequently Solomon Water engaged casual labour to do trial planting of vetiver grass in this location. Although the planted vetiver slips mostly survived the outplanting they did not thrive. It appears the vetiver grass did not grow well since the shadows of trees blocked light coming from sun.



*Figure 10: Temporary retaining of barrier stages with local materials  
(Photo 7/06/23)*



*Figure 11: Vetiver grass planted in August 2023 but not Growing Well  
(Photo 6/11/23)*

### **Establishment of a Catchment Fund**

Scope under review, not progressed in this quarter.

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

#### **3.5.2.1 Nakau Programme Activities: July to September 2023**

During Q3 Nakau conducted comprehensive social and technical studies, herein called PES location studies. 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 studies provide 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.

The first step of the PES location studies involved defining selection criteria, establishing a methodological approach for field assessments, and creating a work plan for site-specific baseline studies. The criteria were consolidated in the report titled “Site Selection Criteria for PES Projects at Kovi, Kohove and Kongulai” (Deliverable 1.2(a) and 2.2 (a)). The site selection process was primarily guided by indication of Solomon Water on the priority water catchment areas that are supplying Kongulai Water Station. The hydrologic technical studies carried out by the University of Queensland provided an additional refinement in the site selection. The results indicated key areas important for recharging underground water system and the ground surfaces areas likely contributing to the water quality. The UQ studies combined with the information consolidated during the high-level biophysical and social context analysis indicated sites for PES location studies.

### **3.6 Q3 Main findings**

The social system studies included conducting a total of 12 Focus Group Discussions and 21 one-on-one in-depth interviews with key stakeholders (e.g. Trustees, Tandai House of Chiefs, Tanaghai Catholic church, Tandai Ward Development Committee). The community-level data collection was led by Sustineo and Live and Learn Solomon Islands. The team assessed 4 communities (Vatukola, Tamalupo, Kolotoha and Kongulai Village), selected based on advice from stakeholders and community start-up consultations held in Honiara in June. The forest inventory and forest restoration assessments were led by a forest expert from Nakau and engaged experienced field officers and botanists from MOFR. Landowners from Kongulai, Kovi and Kohove also participated in training and collaborating in data collection. During Q4 Nakau will complete the analysis of data collected in Q3 and will consolidate the PES location report, incorporating a feasibility analysis for PES project development in the scope area.

#### **General Project Management**

Regular face-to-face and online meetings were held with SW, the University of Queensland, and Nakau and Live and Learn Solomon Islands on issues of hydrological monitoring, mapping work and development of catchment related PES projects.



## 4 SAFEGUARDS

### 4.1 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.

#### 4.1.1 Safeguard Documents

During Q3 2023, there have been ongoing review and updating of Initial Environmental Examination (IEEs)/Public Environmental Reports (PERs) and Construction Environmental and Social Management Plans (CESMPs) required for the UWSSSP projects. All the IEEs and CESMPs reviewed in Q1 and Q2 have been approved by donor partners and MECDM. The key matters arising during this reporting period were:

- 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.
- Review and updating of CESMPs was ongoing throughout this reporting period. The CESMP for the HNWS Trunk Main and Kongulai WTP has been approved in this reporting period by ADB/WB. Works are ongoing while corrections to the CESMP's are completed. The site specific erosion and sediment control plan for Titinge reservoir site was reviewed and approved within this reporting period.
- Error! Reference source not found. The table below provides a summary on the approval status of the various IEE/PER documents and development consent applications to date.



Table 4-1: Status of IEE/PERs for UWSSSP Sub-projects

UWSSSP Subprojects	Safeguard Documents	Status as at end September 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
<b>Honiara Water Supply</b>					
Kongulai Water Treatment Plant	IEE/ PER	Approved by MECDM.  Approved by ADB/WB.	12 <sup>th</sup> March 2020	1 <sup>st</sup> 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 <sup>st</sup> January 2021	17 <sup>th</sup> March 2021	Updated IEE/PER resubmitted to WB/ADB on 6 <sup>th</sup> October 2021. No objection received on 29 <sup>th</sup> October 2021.
Honiara Network Water Supply-Trunk Mains	IEE/PER	Approved by ADB/WB.	21 <sup>st</sup> January 2021	17 <sup>th</sup> March 2021	Updated IEE/PER resubmitted to WB/ADB on 6 <sup>th</sup> October 2021. No objection received on 29 <sup>th</sup> October 2021.
<b>Provincial Water Supply Schemes</b>					
Auki	IEE/PER	Approved by MECDM.  Approved by ADB/WB.	10 <sup>th</sup> August 2018	24 <sup>th</sup> September 2018	Project currently in operational phase. Defects liability period lapsed on 12 <sup>th</sup> October 2021.
Tulagi	IEE/PER	Approved by ADB/WB.	25 <sup>th</sup> January 2021	7 <sup>th</sup> March 2021	Updated IEE/PER resubmitted to WB RSA on 12 <sup>th</sup> October 2021. No objection received on 19 <sup>th</sup> November 2021.

UWSSSP Subprojects	Safeguard Documents	Status as at end September 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
Noro	IEE/PER	Approved by ADB/WB	6 <sup>th</sup> December 2022	29 <sup>th</sup> March 2023	The IEE/PER was cleared by WB RSA on 21 <sup>st</sup> April 2022. The approved IEE/PER and development consent application was submitted to MECDM in Q4 2022 for approval and issuance of development consent. Public Hearing and PER disclosure undertaken on 9 <sup>th</sup> February 2023 in Noro town. Noro development consent granted by MECDM on 29 <sup>th</sup> March 2023.
Munda	IEE/PER	Approved by ADB/WB	6 <sup>th</sup> December 2022	10 <sup>th</sup> April 2023	Approval from WB RSA received on 9 <sup>th</sup> May 2022. The approved IEE/PER and development consent application was submitted to MECDM in Q4 2022 for approval and issuance of development consent. Public Hearing meetings and PER disclosure completed on 10 <sup>th</sup> February 2023 in Munda town. Munda DC applications was reviewed and approved by MECDM. DC was issued on 10 <sup>th</sup> April 2023.
Gizo	IEE/PER	Review and updating of report is pending.			IEE/PER revision and finalization is still further delayed awaiting approval for more hydrogeological investigations at Mile 6 Lake and surface water sources.

UWSSSP Subprojects	Safeguard Documents	Status as at end September 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
<b>Honiara Sewer Rehabilitation and Expansion Program</b>					
Honiara Network Wastewater- (Pump Stations and Collector Mains)	EIS	Approved by ADB/WB and MECDM	6 <sup>th</sup> February 2023.	3 <sup>rd</sup> May 2023	Proposal application submitted to MEDCM on 29 <sup>th</sup> November 2021. Received response from MEDCM on 14 <sup>th</sup> December 2021 that an EIS is required. EIS field assessment commenced in August 2022. Draft EIS submitted to ADB/WB on 24 <sup>th</sup> October 2022. Combined comment matrix from ADB/WB received on 12 <sup>th</sup> November 2022. Revised EIS (final draft) submitted to ADB/WB on 19 <sup>th</sup> December 2022. Revised EIS submitted to WB RSA on 2 <sup>nd</sup> February 2023. No objection received on 3 <sup>rd</sup> February 2023. DC application submitted to MECDM on 6 <sup>th</sup> February 2023. Public consultation and disclosure of EIS was undertaken on 5 <sup>th</sup> April 2023 in Honiara. DC application was reviewed and approved by MECDM. DC issued on 3 <sup>rd</sup> May 2023.
Honiara Network Wastewater-Outfalls	EIS	Approved by ADB/WB and MECDM	6 <sup>th</sup> February 2023	3 <sup>rd</sup> May 2023	Proposal application submitted to MEDCM on 29 <sup>th</sup> November 2021. Received response from MEDCM on 14 <sup>th</sup> December 2021 that an EIS is required. Field assessment commenced in August 2022. Draft EIS submitted to ADB/WB on 24 <sup>th</sup> October 2022. Combined comment matrix from ADB/WB received on 12 <sup>th</sup> November 2022. Revised EIS (final draft) submitted to ADB/WB on 19 <sup>th</sup> December 2022. Revised submitted to WB RSA on 2 <sup>nd</sup> February 2023. No objection received on 3 <sup>rd</sup> February 2023. DC application submitted to MECDM on 6 <sup>th</sup> February 2023. Public consultation and disclosure of EIS was undertaken on 5 <sup>th</sup> April 2023 in Honiara. DC application was reviewed and approved by MECDM. DC issued by MECDM on 3 <sup>rd</sup> May 2023.



#### **4.1.2 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.

Works undertaken by the contractors were mainly associated with site preparation, trenching and excavation works, and pipe laying. In situ reinforced concrete (RC) works have started at Tasahe reservoirs site in this reporting period.

Issues identified were communicated to the contractor via NTCs and email for rectification. Key priority issues identified from the audits were mainly associated with workers' health and safety.

An environmental audit was conducted during this reporting period at Panatina to Burns Creek trunk main section. A stop work notice was issued to PEP by the responsible SW Project Manager requesting rectification of the identified issues before they can resume with construction works.

In September, SW PMU safeguards team planned and 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.

#### **4.1.3 Workers' Health and Safety**

There were several health and safety issues recorded in this reporting quarter. The H&S issues observed were:

- Workers not complying to PPE requirements. No PPEs issued to subcontracting staffs by PEP.
- Workers on site were unaware of their responsibilities with regards to Health and Safety.
- Lack of documentation to prove casual workers have been briefed on the JSA and had a prestart toolbox meeting about the excavation and trenching works they are doing.
- Portable toilets and resting space (tent) for workers not available on site.

The issues were communicated to PEP via an NTC 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 traffic management plan (TMP) and PPE requirements in the approved CESMPs was highlighted to the contractor when doing the weekly site visits and follow-ups.

#### 4.1.4 Consultation with SMEC Management and Environmental Team

SMEC has been appointed to undertake the detailed engineering design for UWSSSP Phase 2 projects. The following subprojects are financed under the UWSSSP (Phase 2):

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

The draft IEE/PERs for the Honiara component were completed by SMEC. SW reviewed the drafts and provided comments to SMEC. Review and updating of the IEEs is ongoing by SMEC in this reporting period. The Honiara Water Pipeline Rehabilitation and Network Expansion will have separate IEE/PERs. The IEE/PERs are expected to be completed in Q4 2023.

The following Phase 2 projects require 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 September 2023	Development Application Submission Dates	Development Consent Issue Date	Remarks
Auki Water Network Expansion	Proposal Application and IEE/PER	Proposal application preparation is ongoing.			The final version of the proposal application will be submitted to MECDM, to determine whether an EIS/PER is required. The proposal application is yet to be finalized. Proposal application expected to be completed and submitted to MECDM in Q4 2023.

UWSSSP Phase 2 subprojects	Safeguard Documents	Status as at end September 2023	Development Application Submission Dates	Development Consent Issue Date	Remarks
Honiara Water Supply Rehabilitation(10km)	Proposal Application and IEE/PER	Proposal Application finalised and submitted to MECDM, which they responded that a PER is required. Draft PER completed by SMEC. Review and updating of the IEE/PERs is ongoing by SMEC.			Final version of Proposal application received on 28 <sup>th</sup> November 2022. Proposal application submitted MECDM on 6 <sup>th</sup> December 2022 to determine whether an EIS/PER is required. MECDM responded on 19 <sup>th</sup> December 2022 via email that a PER is required for the project. Draft PER received from SMEC on 19 <sup>th</sup> April 2023. SW reviewed and provided comments to SMEC on 17 <sup>th</sup> April 2023. Revised IEE/PER expected to be completed in Q4 2023.

UWSSSP Phase 2 subprojects	Safeguard Documents	Status as at end September 2023	Development Application Submission Dates	Development Consent Issue Date	Remarks
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.			Final version of Proposal application received on 28 <sup>th</sup> November 2022. Proposal application submitted to MECDM on 6 <sup>th</sup> December 2022 to determine whether an EIS/PER is required. MECDM responded on 19 <sup>th</sup> December 2022 via email that a PER is required for the project. Draft PER received from SMEC on 24 <sup>th</sup> April 2023. SW reviewed and provided comments to SMEC on 17 <sup>th</sup> April 2023. Revised IEE/PER expected to be completed in Q4 2023.
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 September 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.			Final version of Proposal application received on 14 <sup>th</sup> November 2022. Proposal application submitted to MECDM on 6 <sup>th</sup> December 2022 to determine whether an EIS/PER is required. MECDM responded on 19 <sup>th</sup> December 2022 via email that an EIS is required for the project.

## 4.2 Social Safeguards

The social safeguards time was divided between providing oversight on the implementation of four CESMPs of subprojects that are still being constructed simultaneously in Honiara and ongoing negotiation with land affected parties toward LARPs for subprojects that are still undergoing final detailed designs. Part of that work also include the ongoing monitoring of LARPs that have been fully implemented. 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 resolving grievances.

### 4.2.1 Land Acquisition & Resettlement Plans (LARPs)

The required LARP under the Project 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 yet to be determined whether three LARPs or three due diligence reports are required, pending all the confirmation of pipe alignments to see if they fall within existing easements or outside. Discussion around the implementation of the LARP is under the next heading.

**Table 4.3: Status of LARPs for UWSSSP Sub-projects**

Sub-Project		IR Category	LARP/DDR prepared	LARP/DDR cleared/ Status of subproject implementation
No	Name			
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 are 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 <sup>2</sup>	B	Yes	Yes (6/09/2022) Construction starting
13	Honiara Wastewater: Western Section	B	Yes	No (Pending negotiation and signing of MOU with 4 land title holders)
<b>UWSSSP(Phase 2) Subprojects delivered by SMEC</b>				
14	Auki Water Network Expansion	B	No	No (Not yet developed)
15	Honiara Water Pipeline Rehabilitation	B	No	No (Not yet developed)
16	Honiara Water Network Expansion	B	No	No (Not yet developed)

#### 4.2.2 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 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 m<sup>2</sup>). Eighty

<sup>2</sup> 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.

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 (HNWS Trunk Mains LARP, Appendix 3) 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. This is to ensure accuracy in the area of his land that eventually is committed for easement. The agreement also indicated that the cost will be calculated based on the rates used in the Sales Agreement in January 2020 which was \$217.00 per SQM. The final area measured by survey will determine the final easement compensation that SW will pay to the AP. This figure which Mr K will eventually receive will be updated in the LARP. Mr K still holds that understanding to date. With the on-boarding of the contractor, this area of interest has already been surveyed to confirm the alignment for the installation of pipeline during this reporting period. Construction works on this section may start in the next quarter.
- **Kongulai WTP:** The Kongulai WTP LARP has been fully implemented. Relocation of people and compensation for crops and food tree losses have all been paid for within the area of interest. The cut off dates for the areas of interest (WTP site and associated pipeline from Kongulai to Tasahe Tanks) were 4<sup>th</sup> February 2020 and 27<sup>th</sup> March 2020 respectively. These were dates when inventories of crops, food trees and structures were undertaken. On 18<sup>th</sup> August 2022, SW issued a final 4- weeks' notice to the APs whose names appeared in the Kongulai WTP LARP and whom SW had previously compensated based on the valuation of the inventory of items they owned. The notice was effective on 18<sup>th</sup> August 2022 and ended on 17<sup>th</sup> September 2022 to allow the APs to harvest whatever crops they had planted within the affected areas as construction works was going to commence shortly. The notice was also intended to inform those who have planted gardens within the areas of interest after the cut-off date, to also harvest their garden items.  
  
Works have started on site including the setting up of a site office, workers' rest bays and sanitation facilities. Excavation works have also commenced after a stop work notice was also lifted by SW following the satisfactory implementation of sedimentation control works on site by the contractor.
- **Community Advisory Committee (CAC):** On 1 February 2023, a kick-off meeting was held for the CAC that was set up for Tasahe-Kongulai-White River area. In that meeting, the CAC executive body was set up identifying the chairman and secretary. This CAC was set up to cover works at Kongulai WTP, Tasahe Reservoir and Kongulai to White River section of the Trunk Main works.
- On 3<sup>rd</sup> February, SW held a ground-breaking ceremony at the Kongulai WTP site to mark the opening of the site for construction works to take place.
- Immediately after the ground-breaking, clearance commenced at the WTP site by the contractor and continued into this reporting period including excavation works. The excavation works have had issues relating to safety and sedimentation. During the reporting period, numerous Notices to Contractor (NTCs) and stop works

notices were issued to the contractor directing it to rectify these issues. There was a resettlement issue encountered during Q1 which was resolved within the same quarter. No resettlement incidents happened in Q2 or Q3.

- The contractor has established its contractor camp and site office on the other side of the road opposite to the WTP site on an SW acquired portion of land. The contractor camp contains the workers' resting bay, 2 toilets (for male and female) . Three portable toilets were brought into the site for temporary use.
- **HNWS Reservoirs:** The LARP for HNWS reservoirs (Panatina, Titinge and Tasahe Reservoirs) has been completed, approved by donor partners and fully implemented. There is no resettlement issue relating to the LARP experienced during the reporting period. The contractor, Pacific Engineering Projects Ion Exchange Joint Venture (PEP IE JV) has completely dismantled the old tanks at Panatina and Tasahe sites where the new reservoirs will be constructed. Soil excavation for the footings has also been completed for Tasahe and almost completed for Panatina. Steel works for Tasahe are already underway. These two construction sites are within existing fences. Works toward the construction of a new tank at Titinge have commenced with the contractor having already established their site office near the work site and laydown area within the site acquired by Solomon Water for the tank construction. Consultations have been held with the communities at Titinge about the proposed works and the contractor. The CAC for Titinge will be held early in Q4.

#### 4.2.2.1 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.

Suez submitted the two draft LARPs to SW toward the end of December 2022. These reports are still pending some agreements with title holders, for easement access and sublease agreements that need to be incorporated into the LARPs before they are ready to be submitted to the development partners for reviews and approvals. 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 6<sup>th</sup> September 2022. Pacific Engineering Project Limited (PEP) was awarded the contract to construct this section of the infrastructure. Works are now underway, though late starting.

### **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**. SW is currently in negotiation with South Sea Evangelical Church on easement access and have agreed on a sum for the compensation of the usage of the land during this quarter. An MOU is expected to with them in Q4, after what has been a protracted and difficult process.

**Solomon Islands Ports Authority (SIPA):** SW will require pipelines and a PS to be installed within the land owned by SIPA. In a meeting with SIPA on 17<sup>th</sup> November 2022, SIPA clarified that it will not agree to outright purchase of any of its land but is open to negotiation for lease agreements for any SW infrastructure, particularly the pumping station (PS). SW has 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 been putting together a draft MOU with offers inserted based on the valuation and sent to SIPA for their comments earlier this quarter (Q3). SW has yet to receive feedback from SIPA. SW is hoping to sign an MOU with SIPA in Q4 or Q1 of 2024.

**United Church of Solomon Islands (UCSI):** A draft MoU containing an offer for easement payment based on the value that UCSI have requested, has been submitted to UCSI during Q2 for their review and approval. During this quarter, UCSI has provided feedback that they are satisfied with the content of the MOU. SW is adamant that the MoU must be signed in Q4.

**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 has inserted an escrow account clause for payments within the MoU to safeguard SW. The seafront trustees through their lawyer communicated to SW their refusal to agree to the insertion of the escrow account clause. The risk of not having that clause is high for SW. Therefore, it has reached out to the Seafront Trustees to meet to discuss alternative options in order to have the MoU signed. The meeting could not eventuate this quarter. SW is looking forward to the meeting to be set in Q4.

### **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 (320m<sup>2</sup>), he could not agree to any of the numerous offers that SW has proposed, citing that these offers did not allow for any 'potential' future business losses, claimed to be about SBD10M. This price is far above the actual land valuation for the site and unreasonable since no business yet exists. SW therefore has elevated the issue to the Ministry of Lands (MOL) to see what other options there are, since it is not technically feasible to redesign the pipeline to use another site. SW is awaiting any 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. The area along the western boundary is undeveloped. After an initial

meeting held between Suez design team and TH on 31<sup>st</sup> July 2022, Suez and SW collectively provided responses to a set of questions raised by TH on 23<sup>rd</sup> September 2022. Since then, SW has not been able to get any feedback from TH despite SW's consistent follow ups. TH remained unresponsive. In a recent letter to TH, SW provided them with an offer to allow for the installation of the overflow. SW gave them until 10 July for TH to respond. Again, there was no feedback from TH. SW therefore have decided to liaise with Douglas Logistics (DL), who shared the same border 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.

#### **4.2.2.2 Provincial water supplies:**

- (1) **Tulagi Water Supply:** Suez has undertaken an inventory of losses for crops and structures. Agreements with APs have been signed and the payments already paid out to the APs respective bank accounts in April 2022. The LARP was approved by ADB and WB on 1<sup>st</sup> October 2021. In November 2022, SW received information that two of the APs had not received their payments. SW investigated their claims promptly and learnt that their bank accounts details which the APs had provided to SW, had been closed by the bank. SW liaised with APs to reopen their accounts so that the payments can be made to them. SW confirmed earlier in Q1 2023 that the APs have now received their payments. With that, 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, the AO signed his contract with COL in July and immediately mobilised to Noro and Munda to inform people there through meetings and notices (one month notice) about the intention for the registration of the 3 land parcels. The first public hearing took place on 18 September 2023 which lasted for a week. During these hearings, the acquisition officer had the opportunity to listen to submissions by those who have claim of ownership to the land. This open hearing also allowed the claimants to the land or others who have good historical knowledge of the area of interest to witness for or against certain claims. This open hearing, which is similar to a court setting, enables transparency when claims are made. After the hearing, the AO will write a report based on the evidence that was heard during the hearing and will decide on who the rightful landowners are. This part of the process is expected to take place in early Q4. Once the determination of owners is completed with the COL approving the outcome, SW will sign an MOU with the landowners' trustees with the intention of allowing the development (proposed upgrade works) to proceed while the acquisition process moves on to the appeals period which will take 3 months from the date the determination is published by the COL. If no appeals are received during the appeal period, then survey and

registration of the area of interest (including vesting of PE in landowners' representative's names) will follow. Finally, an execution of lease agreement and payment of premium and land rentals will take place. The term of lease agreement is normally for 50-75 years depending on the negotiations. The appeal period is expected to end in January.

Within the MOU mentioned above, there will be clauses made relevant to payments based on land valuation that may be put in an escrow account.

- (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 21<sup>st</sup> November 2022. It contains calculations of inventory costs for food gardens and trees that were within the proposed site. The inventory date for crops was 31<sup>st</sup> August 2022 and for trees 12<sup>th</sup> April 2022, according to SW's records. The MoU would signify the family's support for the project, but also the understanding that a lease agreement for the use of the land, will only be established after the acquisition process is completed. Compensation for crops and trees is payable as soon as the MoU is signed by the Kere family. The family has requested a meeting with SW which was supposed to be organised during the first half of the year but which did not eventuate due to the order of priority given to the Munda works. The Kere family also have not yet provided 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 Dunde 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 Dunde 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:** A proper water supply is a critical need in Gizo. 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** (page 36). 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** (page 36) while the following **Table 4-4** describes the progress of negotiations with landowners.

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

<b>Names of Affected Parties</b>	<b>Type</b>	<b>Requirement for LARP</b>	<b>Status as of 30 September 2023</b>	<b>Comments</b>
<b><i>HNWW – Western Section LARP (Point Cruz to NRH)</i></b>				
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 anticipate that SIPA will sign the MOU in Q4

<b>Names of Affected Parties</b>	<b>Type</b>	<b>Requirement for LARP</b>	<b>Status as of 30 September 2023</b>	<b>Comments</b>
SSEC	Pipelines	MOU for easement access.	Ongoing	SW and SSEC have agreed on a compensation figure early this quarter. SW has also issued a draft MOU to SSEC with clauses agreed with by both parties. Anticipating MOU signing in Q4.
Uniting Church	Pipelines	MOU for easement access	Ongoing	Anticipating MOU signing in Q4. 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 <sup>th</sup> Aug 2022)	Completed
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.

<b>Names of Affected Parties</b>	<b>Type</b>	<b>Requirement for LARP</b>	<b>Status as of 30 September 2023</b>	<b>Comments</b>
<b><i>HNWW – Eastern Section LARP (Bahai to Ranadi)</i></b>				
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
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.
MID	Goodwood PS and Pipelines	MOU for easement access and consent	Signed	PS (18 <sup>th</sup> August 2022) Pipeline (2 <sup>nd</sup> September 2022)
COL & HCC	Ranadi Landfill PS	MOU for Consent	Signed	October 2022

<b>Names of Affected Parties</b>	<b>Type</b>	<b>Requirement for LARP</b>	<b>Status as of 30 September 2023</b>	<b>Comments</b>
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.
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 land ownership.
<b>Provincial Water Supply – Munda LARP</b>				
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 <sup>st</sup> 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.

<b>Provincial Water Supply - Noro LARP</b>				
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 will be released in early Q4.</p> <p>Once the landowners are determined, SW will sign an MOU with them to allow construction works to proceed while the acquisition process moves to the appeal's period.</p>
<b>Provincial Water Supply - GIZO LARP</b>				
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>
Dr. Lester Ross & WPG	Reservoir	MOU for land acquisition	Complete	MOU executed in Q2 2023

### 4.2.3 Resettlement

All resettlement and compensation relating to the Honiara Water Supply subprojects (WTP, Reservoirs and Trunk mains) have been completed though SW continues to monitor the construction works. There will be 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. The PMU's legal officer has been providing legal advice to the safeguards team on issues relating to pending easement access, land acquisitions and ensuring that terms of MOUs with the land title holders meet the legal requirements of SI. All necessary actions are now discussed internally within the PMU safeguards and lands team (in consultation with international environmental and social safeguards consultants) to ensure that the LARPs satisfy both the development partners and the national requirements. Although the SUEZ contract has ended, the safeguards team will continue to meet regularly to track progress and find solutions to obstacles.

**Grievance Redress Mechanism:** During the reporting period (Q3), there were two grievances raised which were also completely resolved within the same reporting period. The first one was from communities at Kongulai. On 6 July a former SW staff member, who was also part of the tribal owners of Kongulai passed away. That event turned into what is considered a grievance as outlined in Annex 6. Some factions of the Kongulai landowners have capitalised on that event to raise grievances relating to internal tribal disputes about land and the integrity of the gravesite next to the worksite for the Water Treatment Plant. SW with the support of its legal personnel held numerous consultations with the landowners to establish understanding and resolutions to their grievances. Annex 6 records how SW went about resolving the grievance. With the grievance now resolved, SW and its contractor (Rean) continues to be vigilant to ensure that it maintains a cordial relationship with the landowners through ongoing consultations.

The second grievance was reported to SW through its contractor PEP. PEP had made arrangements (agreement) with a landowner, Mr. J.T at Titinge for the siting of a temporary laydown area on his land next to the Titinge Reservoir construction site. When PEP decided to mobilise its equipment on the laydown area, Mr. J.T prevented them from doing so until the government responds positively to the requests of factions of landowning groups around Honiara, which is an unrelated matter to SW. SW met with Mr. J.T on his land at Titinge who explained his grievances and also admitted that the matter is unrelated to SW and the tank construction works. The contractor was then advised by SW to install their laydown site within part of the area that SW had already acquired for the siting of the Titinge reservoir tank, which the contractor did. The contractor and Mr. J.T continues to have a good relationship. This grievance has now been closed off.

#### 4.2.4 Consultation and Awareness of the Project

A summary of consultations held during Q3 of 2023 is shown in the Table 4.5. 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. The majority of consultations held at Kongulai during the reporting period, relates to addressing concerns by the Kongulai community about the grave site being too close to the construction works. SW assured them that the site will be properly fenced and that none of the works will affect the grave. Note, that there were other meetings held with the Kongulai community relating to resolving grievances (see above) that are not captured under the table of consultations. All consultation materials drafted by the contractor go through SW management for clearance before they are used, to ensure messaging are appropriate. The PMU CLO has been instrumental in facilitating this requirement.



Figure 9 Trunk Mains Community Liaison Officer (Jasper Saeni) explaining consultation notice to a cashier at the Car Wash in White River (Photo 23/07/23)



Figure 10 SW & Rean meeting community members following death of Logino Vatohi. (Photo 21/08/23)



**Table 4-5: Summary of UWSSSP consultations held in Q2 of 2023**

Date	Project	Community	SW Action	Key Contacts	Facilitator	Participants	Objective
1 July 23	Honiara Reservoir Upgrade - Tasahe	Tasahe B Community	Provide oversight of PEP	Affected Community	PEP Staff	Male: 8 Female: 7	Inform community and to get community's view at Tasahe about PEP's intention to also do construction works on Sundays.
9 Jul 23	Kongulai WTP	Kongulai	Provide oversight of Rean	Affected Persons	Rean Staff	Female: 2 Male: 1	Discuss with community about the possible dates for commencement of works after casual works at the WTP site stopped due to a death of a significant member of the community.  Also discuss with communities regarding the possibility to resume minor works on the 14 <sup>th</sup> July 2023.
21 July 23	Honiara Water Supply Trunk Main Upgrade Project	Panatina – SINIS Junction (East Honiara)	Provide oversight of PEP	Affected Community	PEP staff	Male: 10 Female: 2	To inform affected residences about the commencement of pipe laying works along Tanakake road.
24 Jul 23	Kongulai WTP	Kongulai	Facilitate meeting	Late Logino's Family	SW Staff	Female: 2	To formally establish with the immediate family of the deceased that the 15 days (7-22 July) stop work notice requested by them has been served and works can now resume.
<b>25 Jul 23</b>	Kongulai WTP	Kongulai	Provide oversight of Rean	Affected Community	Rean & SW Staff	Female: 3 Male: 3	Follow up meeting concerning 2 <sup>nd</sup> stop work notice issued on 23 July to seek clarification from the landowners as to what the reasons were.

Date	Project	Community	SW Action	Key Contacts	Facilitator	Participants	Objective
26 Jul 23	Kongulai WTP	Kongulai	Facilitate meeting	Late Logino's family	SW Staff	Female: 3 Male: 3	Request for minor works to proceed without the use of heavy machinery.  Assurances to family that the graves will not be disturbed by construction works and that the proposed works on the gravesite (i.e. proper fencing) will be done.
25-27-Jul 23	Honiara Water Supply Trunk Main Upgrade Project	WR to Town Ground	Provide oversight of PEP	Affected Community & Businesses	PEP Staff	Male: 35 Female: 15	To inform community, schools and business owners regarding commencement of pipe works
7 Aug 23	Kongulai WTP	Kongulai	Provide Oversight of Rean	Landowners	Rean Staff	Female: 1 Male: 1	To identify landowners who are interested to receive excavated materials from the WTP construction sites. Based on the meeting two sites were identified. A signing of agreement will follow suit with the owners.
11-12-Aug 23	Honiara Water Supply Trunk Main Upgrade Project	Tanakake Residences	Provide oversight of PEP	Affected residences along Tanakake Road	PEP Staff	Male: 21 Female: 10	To inform residences along the Tanakake road and Panatina regarding the proposed implementation of a partial road closure to complete pipe laying works.
21 Aug	Kongulai WTP	Kongulai	Facilitate Meeting	Kongulai Gaena'alu Kakauroha Land Trust Board (Association) Executive and	SW Staff	Female: 15 Male: 33	To provide clarification on land title instruments and conditions of land use arrangements over the land that WTP is being constructed

Date	Project	Community	SW Action	Key Contacts	Facilitator	Participants	Objective
				Kongulai Community			<p>on and also the land where the relocation houses were built.</p> <p>Also to clarify that the land where the grave site is located is registered under the landowner's representatives and has a surveyed boundary.</p> <p>To clarify that SW has no right to interfere in tribal's internal disputes.</p> <p>SW holds registered titles over the parcels and lease title for the parcel where the WTP is to be constructed.</p> <p>To assure family that the graves will not be disturbed and that proper fencing works will be performed</p>
29-Aug 23	Honiara Reservoir Upgrade - Titinge	Titinge	Provide oversight of PEP	Affected Community	PEP Staff	Male: 5 Female: 11	To inform community about the construction of the temporary bypass pipelines.
31 Aug 23	Kongulai WTP	Kongulai	Provide oversight of Rean	Affected Community	Rean Staff	Female: 2 Male: 1	Social Awareness Information about project work and demarcation of project structures

Date	Project	Community	SW Action	Key Contacts	Facilitator	Participants	Objective
06 Sept 23	Honiara Water Supply Trunk Main Upgrade Project	East Kola	Provide oversight of PEP	Affected community, Schools & Businesses	PEP Staff	Male: 15 Female: 17	To inform community, schools, and Businesses that pipe laying works will start at East Kola
20 Sept 23	Honiara Water Supply Trunk Main Upgrade Project	Tanakake - SINIS	Provide oversight of PEP	Affected Community	PEP Staff	Male: 7 Female: 6	To inform residences along Tanakake Road that pipe laying works will be extended by another 10 Days.
21-Sept 23	Honiara Water Supply Trunk Main Upgrade Project	Burnscreek - SINIS	Provide oversight of PEP	Affected Businesses	PEP Staff	Male: 2 Female: 5	To inform business owners that pipe laying works will start at Burnscreek to SINIS
25 Sept 23	Kongulai WTP	Kongulai	Provide oversight of Rean	Affected Community	Rean Staff	Female: 3	Progress updates of the minor works at the WTP construction site  Benefits of community engagement
26-30 Sept 23	Honiara Water Supply Trunk Main Upgrade Project	WR to Iron Bottom Sound (IBS)	Provide oversight of PEP	Affected Businesses, Schools, Park, Police station, Residences & Bus Drivers	PEP Staff	Male:25 Female:18	To inform affected residents that pipe laying work will start.
28 Sept 23	Kongulai WTP	Kongulai	Provide oversight of Rean	Affected Parties	Rean Staff	Female: 2 Male: 1	Approved and signed the consent for reconstructing of the graveyard fence (5m)  Performed cultural ritual as requested by APs.

Date	Project	Community	SW Action	Key Contacts	Facilitator	Participants	Objective
							<p>Inform APs that major excavation works would start at the site as of the week ahead.</p> <p>Health &amp; safety at the WTP construction site.</p> <p>Environmental issues/impacts</p> <p>Grievance Redress Mechanism procedures</p>
27- 29 Sept 23	Honiara Water Supply Trunk Main Upgrade Project	Kongulai - WR	Provide oversight of PEP	Affected community and schools	PEP Staff	Male:24 Female: 15	To inform affected community that pipe laying will start.



Under the updated Stakeholder Engagement Plan, Community Advisory Committees (CACs) must be developed to ensure ongoing consultation and to provide a forum for community feedback. The CAC for Tasahe to Kongulai area has been established, with the PMU CLO now assisting the contractors to establish the CAC for Titinge and other sites. The CAC bodies will provide a process for participation of community members and stakeholders during project construction, post-construction, and site handover to SW. It is envisioned that there will be six CACs for the Honiara project worksites and one in each of the provincial locations.

#### **4.2.5 Gender Action Plan (GAP) Implementation**

A semi-annual Gender Monitoring Report covering the period Jan-June 2023 containing some updated information as of September 2023 and will be submitted to ADB/WB in October reflecting comments received from ADB. During the project Mid Term Review in May 2023, SW was advised that GAP report should be part of the quarterly progress report which is confidential and not a semi-annual report which is a public report. The next GAP monitoring report covering the period from July to December 2023 is in progress and will be submitted together with the Quarter four progress report.

There is ongoing monitoring to ensure all consultations include women participants and that resettlement agreements are providing compensation to both men and women. All trainings on WASH and hygiene awareness aim to include at least 50 % women. Though hygiene promotion activities were affected by Covid-19 restrictions in 2021-22, with limited opportunities for broad community visits and consultations, the situation significantly improved during the last quarter of 2022 and during 2023 with consultations proceeding as expected. Since women are the main carers in families, they have suffered the most severe impacts from poor water supplies and inadequate sanitation.

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**

Following the incomplete first round of training undertaken in 2021, SW has finally managed to restart the training for all its staff in September. This training 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 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. A full report of the training will be included in the next GAP report. The training schedule is below.

TALLY ON THE NUMBER OF PARTICIPANTS PER TRAINING SESSION																
	Group 1		Group 2		Group 3		Group 4		Group 5		Group 6		Group 7		Group 8	
	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	Day 12	Day 13	Day 14	Day 15	Day 16
Total Staff Scheduled	23	23	24	24	24	24	23	23	24	24	26	26	25	25	27	27
Staff Attended	16	14	14	12	16	16	16	15	17	13	17	17	20	18	18	19
Not Attended	7	9	10	12	8	8	7	8	7	11	9	9	5	7	9	8
Total Staff	196															

Group 1-6 All Male ■  
Group 7-8 All Female ■

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## 5 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 is awaiting approval.

Other Q3 2023 activities under PMEF included:

- PMU continued 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.
- Progress towards achieving some of the targets was reviewed in the September DP Review mission. The Mission reviewed progress against the ADB Project Design and Monitoring Framework (DMF) and the World Bank Results Framework (RF). The DMF and RF are designed to measure progress against ADB's project outcome and output statements and the WB's Project Development Objectives<sup>13</sup>. The objectives include: (i) increased access and quality of water supply and sanitation services in selected service areas of Solomon Water; (ii) enhanced and sustained awareness and behaviours of hygiene and water conservation; and (iii) improved performance of Solomon Water. Access and quality of services are measured through increased number of piped water supply connections, drinking water sample tests meeting water quality standards and percentage of wastewater collected and disposed of in accordance with environmental standards. The Mission found that each of these indicators is likely to be achieved by the project closing date (June 30, 2027 for WB and December 31, 2028 for ADB).
- The September mission also noted that since the project began, SW has seen an additional 44,300 people connected to piped water supply, water quality indicators have improved in all of SW's operating areas, and wastewater collection and disposal systems have been designed. The mission also noted the behaviour change campaigns that have been implemented in six settlements in Honiara. A recall survey showed that messaging and behaviours were remembered/enacted by 48 percent of the targeted population.
- Q3 of 2023 was mostly spent on preparations for the September Review mission, finalising the H1 M&E Report, and commencing data collection on current output/outcome level indicator values for the M&E framework and next Semi-annual M&E report.



## 6 AREAS OF CONCERN

Areas of concern are:-

### Physical Works

- For the Kongulai WTP sub-project progress continues to be slow with the Contractor (Rean) substantially under-performing. Delay of this Contract is now well beyond what could be considered reasonable. Despite representations by the contractor in January and July and promises of renewed effort, SW management has seen little improvement in the progress or quality of the works to date. CAR insurance has not been procured albeit a prerequisite prior to start of physical works. If SW's ongoing efforts to encourage the contractor to improve its rate of progress produce no results SW may have to seriously consider termination of the contract.
- Lack of in country resourcing is becoming an issue for Contractors. Resourcing for Safeguards and Technical roles is becoming extremely difficult to secure which is leading to high burdens on SW and Contractor staff and Contractors' progress being limited.
- The critical sewer project Ranadi to Goodwood Pump Station that is required to be completed to service the Pacific Games was awarded to Pacific Engineering Projects. This work supplements the 2 other Contracts PEP won from SW and stretched its resources very thin. PEP is struggling to bring enough resources to bear to progress all 3 projects (combined value approximately USD 21m) in line with SW's expectations. Despite assertions in their bids, the nominated personnel and equipment are not apparent with the Contractor seeking out sub-contracting arrangements with little 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.
- Final preparations for, and the holding of, the Pacific Games 2023 events in and around the new stadium at Ranadi will affect 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 will all be shut down from early October (to resume in December 2023).
- ADB are funding the upgrade 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.

### Safeguards

- Slow progress in land acquisition is ongoing and 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.

- The contractors' reporting and documentation of consultations and monitoring of the implementation of CESMP is still weak. SW has been reviewing and providing feedback on the monthly monitoring report since February with little improvement. The reports continue to be vague and repetitive of that of the previous month.
- Grievances by Kongulai-related landowners have disrupted SW contractors' work at the Kongulai WTP site and the more distant Titinge Reservoir site. In both cases landowners are not honouring existing agreements with SW or are raising disputes against SIG which are outside of SW's control.

#### **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.

## 7 NEXT QUARTER (Q4 2023) - 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 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.
- Close monitoring and further review of progress of the Kongulai WTP contract, to assess contractor performance and determine whether the contractor is able to complete the works within a reasonably acceptable timeframe and to acceptable and contractually specified quality and technical standards;
- Resolution of design and water source issues 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.
- Tender evaluation completed for the Noro PWS sub-project.
- Resolve future status of the revised SCADA project, depending on finance availability from DPs.

### Environmental safeguards:

- Completion of IEE/PERs required for UWSSSP Phase 2 subprojects in Honiara and Auki.
- 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 community advisory committees (CAC) for HNWS.
- Finalising reporting on the August/September SW staff gender training for inclusion in the next GAP report; development of a plan to ensure **all** staff attended the training, since it is compulsory for all staff.
- 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.
- Continued implementation of the WASH Hygiene Promotion Project. WASH team to identify any existing Water User Groups or WASH Committees so progress can be tracked.
- 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 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
- Continuation of nursery operations and field testing of stream bank stabilization methods at the Tuvaruhu trial site and Rove water source.
- 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. 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/or UofQ to undertake parts of this work as variations to their existing contracts.

#### **Performance, Monitoring and Evaluation Framework (PMEF)**

Planned PMEF activities for Q4 2023 include:

- Receive DP comments on draft Q1, Q2 and Q3 Quarterly Progress Reports covering the period January to September 2023, finalise reports and submit for donor approval.
- Prepare for and complete WB Additional Financing Negotiation Mission (Oct 2023)
- Complete data gathering and start collation for next M&E reporting period (H2 of 2023)
- 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 Q4 are:

- Finalise WinS tender documents and Request for Proposals (RFP), and
- Advertise Request for Expressions of Interest (REOI) for the WinS tender.

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## Annex 1: Sub-Project Summaries

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**Sub-Project Summary 31<sup>st</sup> 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.

	<b>Contract Content or Description</b>	<b>Status at report date</b>	<b>SW Comments</b>
<b>Scope</b>	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 <sup>th</sup> Dec 2023, Contractor Site presence limited to security/maintenance personnel.	Scope of Works remain unamended, external determinative forum deliberating circumstances.
<b>Budget</b>	Value USD15.6M	Budget approved and available to Employer	USD 0.467M paid to date.
<b>Schedule</b>	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.
<b>Construction Works</b>	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.
<b>Procurement</b>	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.
<b>Resources</b>	Contractor Resource Management Plan contains details	Project Manager at and around Site, security personnel at Site.	Resource mobilisation subject to external determinative forum deliberation.
<b>Communication</b>	Contractor Communication Plan contains details	Communications generally flowing according to GCC 12.1.	Further and detailed communications subject to external determinative forum deliberation.
<b>Contract</b>	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 <sup>rd</sup> Oct 2024.	Further and detailed communications regarding labour laws, insurance, CESMP, quality of Works subject to external determinative forum deliberation.
<b>Quality</b>	Contractor Quality Management Plan contains details	CESMP compliance measurement requires further enquiry.	Further and detailed communications subject to external determinative forum deliberation.
<b>Risks</b>	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.
<b>Major Issues</b>		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 31<sup>st</sup> 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, & Tifinge**

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.

	<b>Contract Content or Description</b>	<b>Status at report date</b>	<b>SW Comments</b>
<b>Scope</b>	Build three concrete water reservoirs Panatina (2.5ML) Tasahe (3ML) Tifinge (3ML)	Unchanged	There have been no major changes to the scope of works
<b>Budget</b>	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.
<b>Schedule</b>	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.
<b>Construction Works</b>	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.
<b>Procurement</b>	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.
<b>Resources</b>	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.
<b>Communication</b>	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 31<sup>st</sup> 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
<b>Scope</b>	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
<b>Budget</b>	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.
<b>Schedule</b>	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.
<b>Construction Works</b>	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.
<b>Procurement</b>	Contractor Procurement Plan identifies vendors and sources of materials and supplies	Materials delivered to site	Materials and equipment procurement 98% complete.
<b>Resources</b>	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.
<b>Communication</b>	As per contract - Communication Plan implementation	Reports are not being received monthly	Fair quality reports provided, albeit some inaccuracies.
<b>Contract</b>	Contract provisions and requirements remain unchanged	Behind schedule	Could not deliver by December 2023 as per contract, more likely by around December 2024.
<b>Quality</b>	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.
<b>Risks</b>	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.
<b>Major Issues</b>		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 31<sup>st</sup> 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
<b>Scope</b>	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
<b>Budget</b>	Value SBD 80m	Budget approved and available to Employer Variation for extra geotech cost pending.	Paid to date SBD 56.3m.
<b>Schedule</b>	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
<b>Construction Works</b>	No change to status of construction works.	Additional road paving was required for PG2023	
<b>Procurement</b>	Contractor Procurement Plan identifies vendors and sources of materials and supplies	No procurement issues	Design 100% complete. Materials and equipment procurement 30% complete
<b>Resources</b>	Contractor Resource Management Plan contains details	All resources mobilised to site	No issues
<b>Communication</b>	Contractor Communication Plan contains details	Communications generally flowing according to GCC 12.1.	Minor issues, managed by Contractor/SW
<b>Contract</b>	Contract provisions and requirements remain unchanged	Provisions and requirements of contract complied with.	No Issues
<b>Quality</b>	As per contract - Quality Management Plan implementation	High level of quality assurance provided by Contractor	Re: safety, reporting, works social safeguards, environment etc.
<b>Risks</b>	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
<b>Major Issues</b>	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 31<sup>st</sup> 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.

Scope	Description	Status	SW Comments
<b>Scope</b>	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.
<b>Budget</b>	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.
<b>Schedule</b>	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.
<b>Construction Works</b>	Construction scope of works.	Installed 10% complete Total works complete 20% to date.	Proposed changes to manhole installation to address RL issues.
<b>Procurement</b>	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
<b>Resources</b>	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
<b>Communication</b>	Contractor Communication Plan contains details	Communications generally flowing according to GCC 12.1.	Need for Improved stakeholder communication and engagement by contractor
<b>Contract</b>	Contract provisions and requirements remain unchanged	Contract provisions complied with	
<b>Quality</b>	Contractor Quality Management Plan contains details	Satisfactory	Needs continuous monitoring to ensure QA
<b>Risks</b>	As per contract - Risk Management Plan implementation	Land owner adjacent outfall objection outstanding	SW managing Landowner issue Need for improved contractor CESMP compliance
<b>Major Issues</b>	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: 2023 ANNUAL WORK PLAN										
Output 1 <u>Secure and safe urban water supplies</u>	Q1	Q2	Q3	Q4	Project Value (USD m) <sup>1</sup>	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds	Safeguards	
									Status @ End 2022	Actions in 2023
<b>Honiara Water Supply</b>										
1.1 Kongulai Water Treatment Plant	Construction				17.00	0.41	0.47	ADB/WB	All safeguards requirements have been met.	Monitor Implementation (incl. 12 month EoT)
1.2 Honiara Network Water Supply - Trunk mains	Construction				7.79	1.30	2.20	ADB/WB	All safeguards requirements have been met.	Monitor Implementation.
1.3 Honiara Network Water Supply - Service Reservoirs	Construction				7.10	1.92	2.20	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	0.00	ADB/WB	N/A	N/A
<b>Provincial Water Supply Schemes</b>										
1.5 Provincial Water Supply - Gizo <sup>2</sup>			Bid & Award	Construction	12.83	0.00	0.00	ADB/WB/EU	IEE 95% complete. LARP 85% complete	Finalise IEE & LARP for approval, and monitor implementation
1.6 Provincial Water Supply - Noro			Bid & Award	Construction	4.16	0.00	0.00	ADB/WB/EU	IEE approved. LARP 95% complete.	LARP approval and Monitor implementation
1.7 Provincial Water Supply - Munda			Bid & Award	Construction	7.13	0.00	0.00	ADB/WB/EU	IEE approved. LARP 85% complete.	LARP approval and Monitor implementation
1.8 Provincial Water Supply - Tulagi	On hold. Likely will not proceed.				5.93	0.00	0.00	ADB/WB/EU	On hold	On hold
<b>Output 1 Total</b>					<b>64.75</b>	<b>5.04</b>	<b>4.87</b>			
Output 2 <u>Effective, efficient and safe urban sanitation services</u>	Q1	Q2	Q3	Q4	Project Value (USD m) <sup>1</sup>	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds	Safeguards	
									Status @ End 2022	Actions in 2023
<b>Honiara Sewer Rehabilitation and Expansion Program</b>										
2.1 Ranadi Rd to Goodwood Outfall Sewer Works	Construction				6.65	0.00	3.40	ADB/WB/EU	EIS approved by MECDM. LARP approved. Exemption received from MECDM.	EIS approval. Monitor Implementation.
2.2 NRH Sewer Works and Outfall	Postponed				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				16.44	0.00	0.00	ADB/WB/EU	EIS Submitted to MECDM. LARP 85% complete.	EIS and LARP approval. Monitor implementation.
2.4 Septage Treatment Facility	Postponed				0.00	0.00	0.00	ADB/WB/EU	N/A	N/A
<b>Output 2 Total</b>					<b>44.82</b>	<b>0.00</b>	<b>3.40</b>			
Output 3 <u>Enhanced awareness of hygiene and water issues and sustained improved hygiene</u>	Q1	Q2	Q3	Q4	Project Value (USD m)	Spend to end 2022 (USD m)	2023 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 Promotion Project	Implementation				0.83	0.18	0.65	ADB/EU		
3.3 WaSH in Schools				REOI	1.09	0.00	0.00	ADB/EU		

					Output 3 Total	2.00	0.26	0.65				
<b>Output 4 Institutional Strengthening and Project Management</b>					<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Project Value (USD m)</b>	<b>Spend to end 2022 (USD m)</b>	<b>2023 Spend (USD m)</b>	<b>Source of funds</b>
4.1	Financial Management System Replacement				Impl	System Live			0.85	0.25	0.60	ADB/SW
4.2	Data Management Including SCADA							Postponed	1.00	0.00	0.00	ADB/SW
4.3	Detailed Engineering Design - Phase 2				Implementation				1.90	0.18	1.72	ADB/SW
					<b>Output 4 Total</b>				<b>3.75</b>	<b>0.43</b>	<b>2.32</b>	
<b>Output 5 Catchment Protection</b>					<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Project Value (USD m)</b>	<b>Spend to end 2022 (USD m)</b>	<b>2023 Spend (USD m)</b>	<b>Source of funds</b>
5.1	Catchment Management & Paid Ecosystem Services Consultancy - Nakau				Implementation				1.34	0.00	0.50	GEF
					<b>Output 4 Total</b>				<b>1.34</b>	<b>0.00</b>	<b>0.50</b>	
<b>Solomon Water Funded Activities</b>					<b>Q1</b>	<b>Q2</b>	<b>Q3</b>	<b>Q4</b>	<b>Project Value (USD m)</b>	<b>Spend to end 2022 (USD m)</b>	<b>2023 Spend (USD m)</b>	<b>Source of funds</b>
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	0.00	0.50	SW
					<b>SW Contribution Total</b>				<b>9.00</b>	<b>0.00</b>	<b>0.50</b>	
					<b>WHOLE PROJECT</b>				<b>124.32</b>	<b>5.73</b>	<b>11.74</b>	

**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 UWSSSF
- 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 30 September 2023, in US dollars

**Project Disbursements by Disbursement Mode**

Disbursement Mode	ADB			EU	IDA		SIG	SIWA	Total
	Grant 0662	Grant 0801	Loan 3826	Grant 0663	Loan 6407				
Direct payments from donors/lenders	5,303,131.91	670,095.72	9,959,402.09	-	2,150,546.21	-	-	-	<b>18,083,175.93</b>
Payments through the project advance accounts	1,434,396.11	-	-	-	636,775.77	-	-	-	<b>2,071,171.88</b>
Payments made by SIWA to be reimbursed from the donors/lenders	398.05	-	-	756,621.40	-	-	-	-	<b>757,019.45</b>
Others	-	-	-	-	-	5,117,190.99	5,901,215.31	-	<b>11,018,406.30</b>
<b>Total Project Disbursements</b>	<b>6,737,926.07</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.56</b>
Capitalized interest	-	-	96,577.64	-	-	-	-	-	<b>96,577.64</b>
Net interest income on advance account	-	-	-	-	-	-	-	-	-
<b>Total Project Disbursements (including interest)</b>	<b>6,737,926.07</b>	<b>670,095.72</b>	<b>10,055,979.73</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>32,026,351.20</b>
Fund allocation	9,000,000.00	4,587,156.00	28,000,000.00	20,347,000.00	15,000,000.00	12,128,000.00	9,000,000.00	-	-
Undisbursed amount	2,262,073.93	3,917,060.28	17,944,020.27	19,590,378.60	12,212,678.02	7,010,809.01	3,098,784.69	-	-
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	5,848,200.85	670,095.72	7,064,640.90	-	2,787,321.98	5,117,190.99	-	-	<b>21,487,450.44</b>
2: Urban sanitation services are effective, efficient, and safe in GHA	-	-	2,894,761.19	-	-	-	-	-	<b>2,894,761.19</b>
3: Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns	117,100.43	-	-	-	-	-	-	-	<b>117,100.43</b>
4: SIWA is financially and technically sustainable	772,624.75	-	-	756,621.40	-	-	5,901,215.31	-	<b>7,430,461.46</b>
5: Management of Honiara's drinking water source area strengthened to build resilience to climate change	-	-	-	-	-	-	-	-	-
	<b>6,737,926.03</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.52</b>

**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	2,992,751.58	-	9,959,402.09	-	2,787,321.98	-	-	-	<b>15,739,475.65</b>	61,254,000.00
2: Consultancy services	3,745,174.45	670,095.72	-	756,621.40	-	-	1,231,798.17	-	<b>6,403,689.74</b>	15,268,000.00
3: Project visibility	-	-	-	-	-	-	-	-	-	-
4: Taxes and duties	-	-	-	-	-	5,117,190.99	-	-	<b>5,117,190.99</b>	12,128,000.00
5: Contingencies	-	-	-	-	-	-	4,669,417.14	-	<b>4,669,417.14</b>	8,237,000.00
	<b>6,737,926.03</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.52</b>	<b>96,887,000.00</b>

**URBAN WATER SUPPLY AND SANITATION SECTOR PROJECT**

**Financial Summary**

Cumulative up to 30 September 2023, in US dollars

**Project Disbursements by Disbursement Mode**

Disbursement Mode	ADB			EU	IDA		SIG	SIWA	Total
	Grant 0662	Grant 0801	Loan 3826	Grant 0663	Loan 6407				
Direct payments from donors/lenders	5,303,131.91	670,095.72	9,959,402.09	-	2,150,546.21	-	-	-	<b>18,083,175.93</b>
Payments through the project advance accounts	1,434,396.11	-	-	-	636,775.77	-	-	-	<b>2,071,171.88</b>
Payments made by SIWA to be reimbursed from the donors/lenders	398.05	-	-	756,621.40	-	-	-	-	<b>757,019.45</b>
Others	-	-	-	-	-	5,117,190.99	5,901,215.31	-	<b>11,018,406.30</b>
<b>Total Project Disbursements</b>	<b>6,737,926.07</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.56</b>
Capitalized interest	-	-	96,577.64	-	-	-	-	-	<b>96,577.64</b>
Net interest income on advance account	-	-	-	-	-	-	-	-	-
<b>Total Project Disbursements (including interest)</b>	<b>6,737,926.07</b>	<b>670,095.72</b>	<b>10,055,979.73</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>32,026,351.20</b>
Fund allocation	9,000,000.00	4,587,156.00	28,000,000.00	20,347,000.00	15,000,000.00	12,128,000.00	9,000,000.00	-	-
Undisbursed amount	2,262,073.93	3,917,060.28	17,944,020.27	19,590,378.60	12,212,678.02	7,010,809.01	3,098,784.69	-	-
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	5,848,200.85	670,095.72	7,064,640.90	-	2,787,321.98	5,117,190.99	-	-	<b>21,487,450.44</b>
2: Urban sanitation services are effective, efficient, and safe in GHA	-	-	2,894,761.19	-	-	-	-	-	<b>2,894,761.19</b>
3: Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns	117,100.43	-	-	-	-	-	-	-	<b>117,100.43</b>
4: SIWA is financially and technically sustainable	772,624.75	-	-	756,621.40	-	-	5,901,215.31	-	<b>7,430,461.46</b>
5: Management of Honiara's drinking water source area strengthened to build resilience to climate change	-	-	-	-	-	-	-	-	-
	<b>6,737,926.03</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.52</b>

**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	2,992,751.58	-	9,959,402.09	-	2,787,321.98	-	-	-	<b>15,739,475.65</b>	61,254,000.00
2: Consultancy services	3,745,174.45	670,095.72	-	756,621.40	-	-	1,231,798.17	-	<b>6,403,689.74</b>	15,268,000.00
3: Project visibility	-	-	-	-	-	-	-	-	-	-
4: Taxes and duties	-	-	-	-	-	5,117,190.99	-	-	<b>5,117,190.99</b>	12,128,000.00
5: Contingencies	-	-	-	-	-	-	4,669,417.14	-	<b>4,669,417.14</b>	8,237,000.00
	<b>6,737,926.03</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.52</b>	<b>96,887,000.00</b>

**URBAN WATER SUPPLY AND SANITATION SECTOR PROJECT**

**Financial Summary**

Cumulative up to 30 September 2023, in US dollars

**Project Disbursements by Disbursement Mode**

Disbursement Mode	ADB			EU	IDA		SIG	SIWA	Total
	Grant 0662	Grant 0801	Loan 3826	Grant 0663	Loan 6407				
Direct payments from donors/lenders	5,303,131.91	670,095.72	9,959,402.09	-	2,150,546.21	-	-	-	<b>18,083,175.93</b>
Payments through the project advance accounts	1,434,396.11	-	-	-	636,775.77	-	-	-	<b>2,071,171.88</b>
Payments made by SIWA to be reimbursed from the donors/lenders	398.05	-	-	756,621.40	-	-	-	-	<b>757,019.45</b>
Others	-	-	-	-	-	5,117,190.99	5,901,215.31	-	<b>11,018,406.30</b>
<b>Total Project Disbursements</b>	<b>6,737,926.07</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.56</b>
Capitalized interest	-	-	96,577.64	-	-	-	-	-	<b>96,577.64</b>
Net interest income on advance account	-	-	-	-	-	-	-	-	-
<b>Total Project Disbursements (including interest)</b>	<b>6,737,926.07</b>	<b>670,095.72</b>	<b>10,055,979.73</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>32,026,351.20</b>
Fund allocation	9,000,000.00	4,587,156.00	28,000,000.00	20,347,000.00	15,000,000.00	12,128,000.00	9,000,000.00	-	-
Undisbursed amount	2,262,073.93	3,917,060.28	17,944,020.27	19,590,378.60	12,212,678.02	7,010,809.01	3,098,784.69	-	-
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	5,848,200.85	670,095.72	7,064,640.90	-	2,787,321.98	5,117,190.99	-	-	<b>21,487,450.44</b>
2: Urban sanitation services are effective, efficient, and safe in GHA	-	-	2,894,761.19	-	-	-	-	-	<b>2,894,761.19</b>
3: Enhanced and sustained awareness and behaviors of hygiene and water conservation in GHA and five towns	117,100.43	-	-	-	-	-	-	-	<b>117,100.43</b>
4: SIWA is financially and technically sustainable	772,624.75	-	-	756,621.40	-	-	5,901,215.31	-	<b>7,430,461.46</b>
5: Management of Honiara's drinking water source area strengthened to build resilience to climate change	-	-	-	-	-	-	-	-	-
	<b>6,737,926.03</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.52</b>

**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	2,992,751.58	-	9,959,402.09	-	2,787,321.98	-	-	-	<b>15,739,475.65</b>	61,254,000.00
2: Consultancy services	3,745,174.45	670,095.72	-	756,621.40	-	-	1,231,798.17	-	<b>6,403,689.74</b>	15,268,000.00
3: Project visibility	-	-	-	-	-	-	-	-	-	-
4: Taxes and duties	-	-	-	-	-	5,117,190.99	-	-	<b>5,117,190.99</b>	12,128,000.00
5: Contingencies	-	-	-	-	-	-	4,669,417.14	-	<b>4,669,417.14</b>	8,237,000.00
	<b>6,737,926.03</b>	<b>670,095.72</b>	<b>9,959,402.09</b>	<b>756,621.40</b>	<b>2,787,321.98</b>	<b>5,117,190.99</b>	<b>5,901,215.31</b>	-	<b>31,929,773.52</b>	<b>96,887,000.00</b>



## **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 Chatter

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	
	<b>TOTAL</b>	<b>157,324,863</b>	

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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## Annexes

Annex 1 – M&E Matrix

Annex 2 – Risk Matrix

## 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.

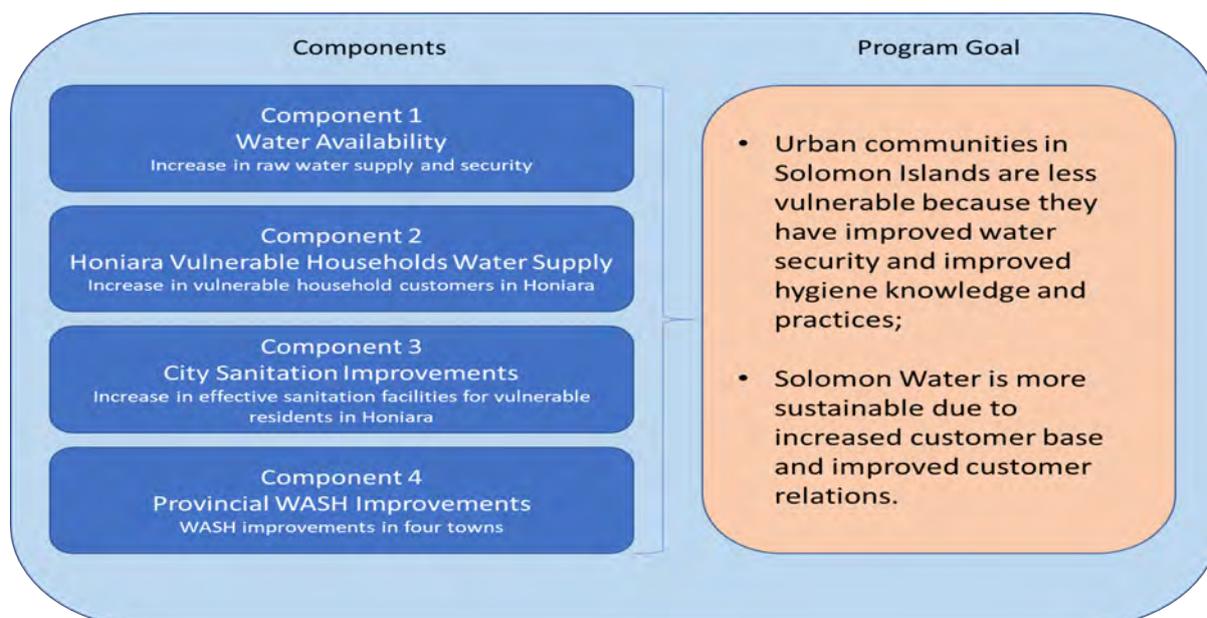


Figure 1 - SW-WSSVCP Framework

## 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	July - Sept	Oct - Dec	Jan - March	Apr - Jun	Jul - Sept	Oct - Dec	Total		
		2021	2021	2021	2022	2022	2022	2022	New	Pipe Laid	
<b>New Connections</b>											
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	
<b>Total</b>	<b>2620</b>	<b>446</b>	<b>386</b>	<b>20</b>	<b>534</b>	<b>1184</b>	<b>308</b>	<b>294</b>	<b>3172</b>	<b>66.036</b>	

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 2<sup>nd</sup> Oct -15<sup>th</sup> 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).

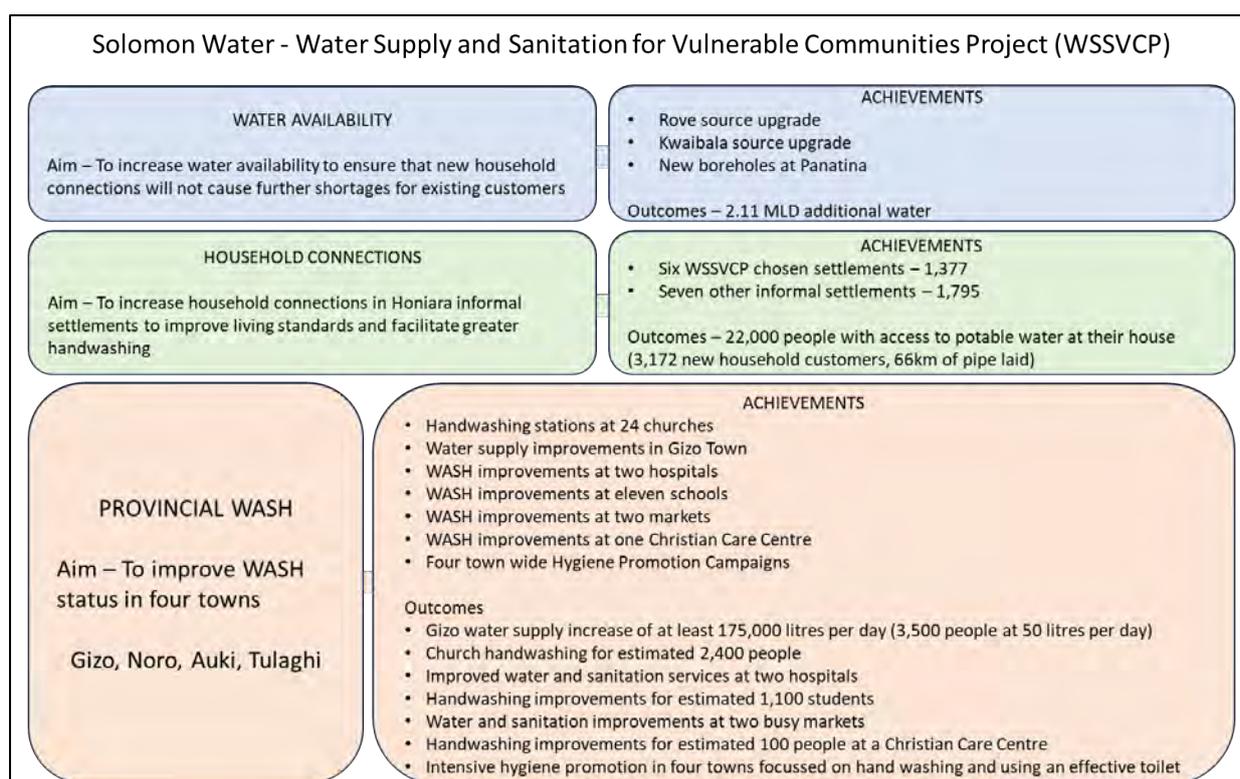


Figure 2 - Summary of Achievements

### 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
<b>1. Water Availability</b>	<b>9,250,000</b>	<b>9,250,000</b>	<b>13,413,496</b>
<b>2. Honiara Vulnerable Households Water Supply</b>	<b>18,300,000</b>	<b>14,321,220</b>	<b>11,505,081</b>
<b>3. City Sanitation Improvements</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>850,000</b>
<b>4. Provincial WASH Improvements</b>	<b>5,998,780</b>	<b>5,998,780</b>	<b>5,001,423</b>
<b>TOTAL</b>	<b>34,748,780</b>	<b>30,770,000</b>	<b>30,770,000</b>

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
<b>TOTAL</b>	<b>30,770,000</b>	<b>30,304,404</b>	<b>465,596</b>

Table 3 - Expenditure as of 19<sup>th</sup> 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
<b>Broader development objective</b>								
	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	

<b>End-of-program</b>								
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	<b>Water Availability</b> - 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	<b>Vulnerable Households Water Supply</b> - 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	<b>Sanitation Improvements</b> - 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, Tulagi, 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

<b>Intermediate</b>								
Outcomes	Outputs	Indicator	Data collection method & frequency	Risks	Who will collect and analyse the data	Baseline	Target	Progress to December 2022
<b>1.0 Water sources in Honiara and Auki are secure and protected</b>	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.
<b>2.0 Vulnerable households in Honiara have improved access to clean water</b>	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 Lunga - 201 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
<b>3.0 New public WASH facilities are available</b>	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.
<b>4.0 Provincial households have improved WASH facilities</b>	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, Tulagi and Noro has upgraded WASH facilities that service vulnerable residents and include toilets, hand washing facilities, and water available for purchase.	WASH facilities upgraded at schools, churches, hospitals in Gizo, Tulagi, and Noro. Upgrades ongoing for Auki.
<b>5.0 Services delivered by Solomon Water meet the needs of Solomon Islanders</b>	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
<b>Social Risks</b>			
Community jealousy or disagreement regarding which settlements should be prioritised	<ul style="list-style-type: none"> <li>● Conflict between people and leaders of different Settlements and HCC/SW</li> </ul>	1/2	<ul style="list-style-type: none"> <li>● 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.</li> <li>● Review if significant issues develop</li> </ul>
Community expectations are not met (for example delays in water connections).	<ul style="list-style-type: none"> <li>● Residents disillusioned and less likely to pay for water initially.</li> </ul>	1/1	<ul style="list-style-type: none"> <li>● Involve residents in paid work to install new pipelines in their own areas.</li> <li>● Effective &amp; ongoing engagement communication to ensure realistic expectations.</li> <li>● Communication plan to include strategy &amp; messaging in relation to expectations.</li> </ul>
Community members do not support the use of public toilets or WASH facilities	<ul style="list-style-type: none"> <li>● WASH Amenities not used or properly maintained</li> </ul>	2/2	<ul style="list-style-type: none"> <li>● SW WASH Household Survey was conducted and included questions on attitudes towards public WASH facilities.</li> <li>● Household Survey included questions particularly targeted at women to ensure facilities are located, designed, and managed to maximise use by women and girls.</li> </ul>
<b>Financial Risks</b>			
SW has not recently been involved in accounting and financial reporting of DFAT-financed projects.	<ul style="list-style-type: none"> <li>● Delays in financial reporting.</li> <li>● Reporting not to DFAT requirements.</li> </ul>	1/1	<ul style="list-style-type: none"> <li>● 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.</li> </ul>
<b>Environmental and Climate Risks</b>			
Erosion, land degradation due to	<ul style="list-style-type: none"> <li>● Erosion of land in Settlements causing</li> </ul>	1/2	<ul style="list-style-type: none"> <li>● 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.</li> </ul>

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

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

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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## Annexes

Annex 1 – M&E Matrix

Annex 2 – Risk Matrix

## 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.

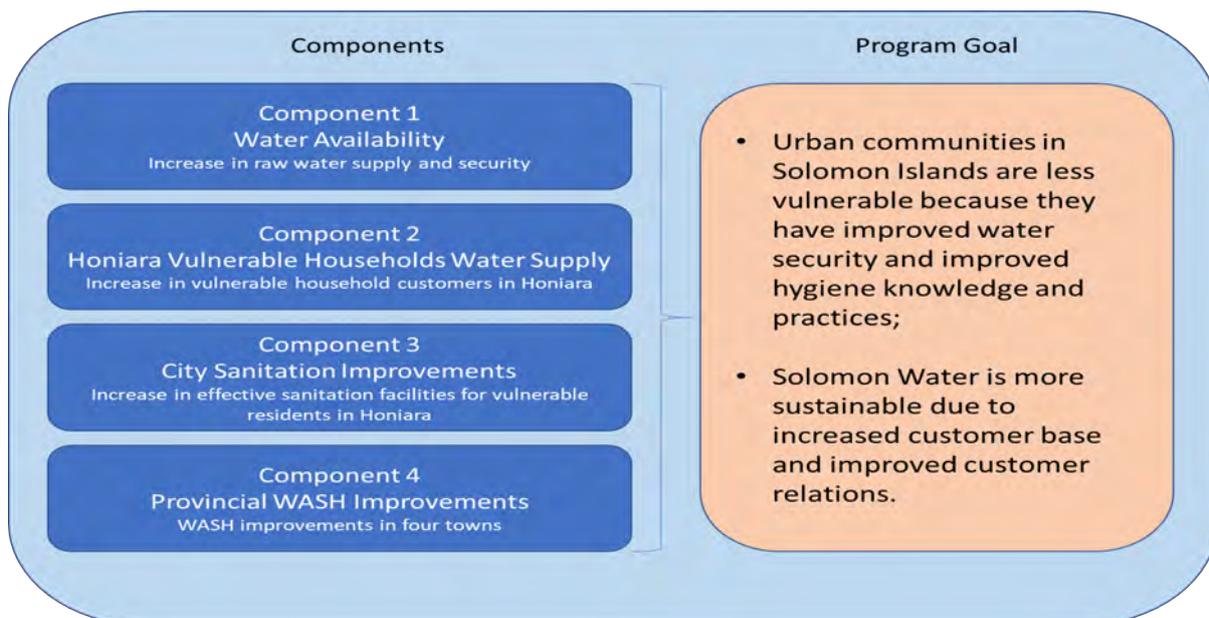


Figure 1 - SW-WSSVCP Framework

## 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	July - Sept	Oct - Dec	Jan - March	Apr - Jun	Jul - Sept	Oct - Dec	Total		
		2021	2021	2021	2022	2022	2022	2022	New	Pipe Laid	
<b>New Connections</b>											
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	
<b>Total</b>	<b>2620</b>	<b>446</b>	<b>386</b>	<b>20</b>	<b>534</b>	<b>1184</b>	<b>308</b>	<b>294</b>	<b>3172</b>	<b>66.036</b>	

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 2<sup>nd</sup> Oct -15<sup>th</sup> 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).

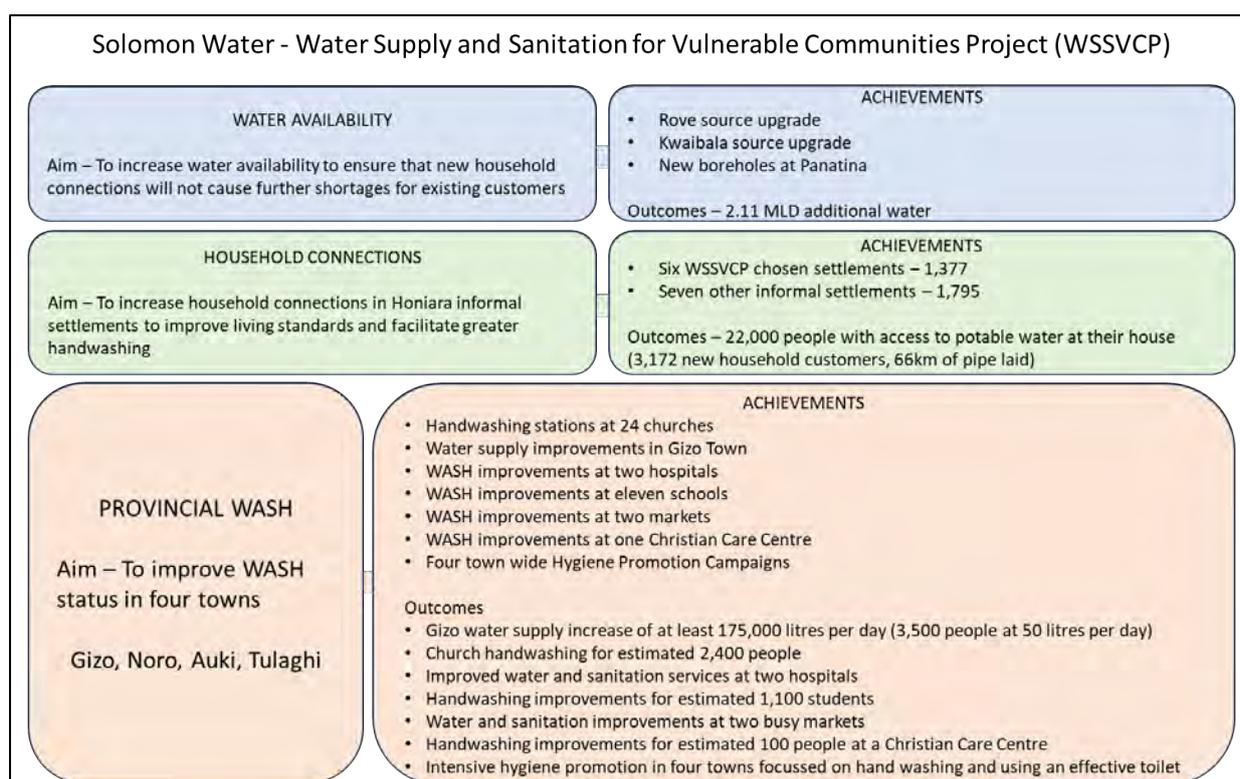


Figure 2 - Summary of Achievements

### 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
<b>1. Water Availability</b>	<b>9,250,000</b>	<b>9,250,000</b>	<b>13,413,496</b>
<b>2. Honiara Vulnerable Households Water Supply</b>	<b>18,300,000</b>	<b>14,321,220</b>	<b>11,505,081</b>
<b>3. City Sanitation Improvements</b>	<b>1,200,000</b>	<b>1,200,000</b>	<b>850,000</b>
<b>4. Provincial WASH Improvements</b>	<b>5,998,780</b>	<b>5,998,780</b>	<b>5,001,423</b>
<b>TOTAL</b>	<b>34,748,780</b>	<b>30,770,000</b>	<b>30,770,000</b>

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
<b>TOTAL</b>	<b>30,770,000</b>	<b>30,304,404</b>	<b>465,596</b>

Table 3 - Expenditure as of 19<sup>th</sup> 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
<b>Broader development objective</b>								
	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	

<b>End-of-program</b>								
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	<b>Water Availability</b> - 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	<b>Vulnerable Households Water Supply</b> - 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	<b>Sanitation Improvements</b> - 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, Tulagi, 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

<b>Intermediate</b>								
Outcomes	Outputs	Indicator	Data collection method & frequency	Risks	Who will collect and analyse the data	Baseline	Target	Progress to December 2022
<b>1.0 Water sources in Honiara and Auki are secure and protected</b>	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.
<b>2.0 Vulnerable households in Honiara have improved access to clean water</b>	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 Lunga - 201 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
<b>3.0 New public WASH facilities are available</b>	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.
<b>4.0 Provincial households have improved WASH facilities</b>	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, Tulagi and Noro has upgraded WASH facilities that service vulnerable residents and include toilets, hand washing facilities, and water available for purchase.	WASH facilities upgraded at schools, churches, hospitals in Gizo, Tulagi, and Noro. Upgrades ongoing for Auki.
<b>5.0 Services delivered by Solomon Water meet the needs of Solomon Islanders</b>	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
<b>Social Risks</b>			
Community jealousy or disagreement regarding which settlements should be prioritised	<ul style="list-style-type: none"> <li>● Conflict between people and leaders of different Settlements and HCC/SW</li> </ul>	1/2	<ul style="list-style-type: none"> <li>● 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.</li> <li>● Review if significant issues develop</li> </ul>
Community expectations are not met (for example delays in water connections).	<ul style="list-style-type: none"> <li>● Residents disillusioned and less likely to pay for water initially.</li> </ul>	1/1	<ul style="list-style-type: none"> <li>● Involve residents in paid work to install new pipelines in their own areas.</li> <li>● Effective &amp; ongoing engagement communication to ensure realistic expectations.</li> <li>● Communication plan to include strategy &amp; messaging in relation to expectations.</li> </ul>
Community members do not support the use of public toilets or WASH facilities	<ul style="list-style-type: none"> <li>● WASH Amenities not used or properly maintained</li> </ul>	2/2	<ul style="list-style-type: none"> <li>● SW WASH Household Survey was conducted and included questions on attitudes towards public WASH facilities.</li> <li>● Household Survey included questions particularly targeted at women to ensure facilities are located, designed, and managed to maximise use by women and girls.</li> </ul>
<b>Financial Risks</b>			
SW has not recently been involved in accounting and financial reporting of DFAT-financed projects.	<ul style="list-style-type: none"> <li>● Delays in financial reporting.</li> <li>● Reporting not to DFAT requirements.</li> </ul>	1/1	<ul style="list-style-type: none"> <li>● 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.</li> </ul>
<b>Environmental and Climate Risks</b>			
Erosion, land degradation due to	<ul style="list-style-type: none"> <li>● Erosion of land in Settlements causing</li> </ul>	1/2	<ul style="list-style-type: none"> <li>● 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.</li> </ul>

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

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