



URBAN WATER SUPPLY AND SANITATION SECTOR PROJECT (UWSSSP)

Solomon Islands Water Authority

Quarterly Progress Report Q1 2023 and Mid Term Review Report

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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
ESMP	Environmental and Social Management Plan
ERP	Enterprise Resource Planning
EU	European Union
FFA	Financing Framework Agreement
FSM	Faecal Sludge Management
GAP	Gender Action Plan
GBV	Gender-based violence
GIS	Geographic Information System
GEF	Global Environment Fund
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)
IR	Involuntary Resettlement
IEE	Initial Environmental Examination
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
PISI	Plan International Solomon Islands
PER	Public Environmental Report
PES	Payments for Ecosystem Services
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
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
WinS	WASH in Schools
WB	World Bank
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 eleventh Quarterly Progress Report and covers the first quarter (Q1) of 2023, January through March (inclusive). This report will also inform the Mid-Term Review (MTR) from 9th to 19th May 2023.

The progress towards achieving project objectives in Q1 2023 was less than had been expected, but significant nonetheless. It is pleasing to report:

- HNWS Water Reservoirs
 - Contract awarded to Pacific Engineering Projects Ion Exchange JV for USD 7,105,695 in April 2022.
 - Works have commenced with demolition completed of old steel tanks at Panatina and Tasahe but construction is significantly behind schedule and substantive new works have yet to start at the Panatina, Tasahe and Titinge reservoir sites.
- HNWS Trunk Mains
 - Contract awarded to Pacific Engineering Projects Ltd for USD 7,781,80 in May 2022.
 - Apart from contract preliminaries (eg. insurance, limited site office facilities, ordering materials) no substantive or permanent works were commenced during the reporting period.

- Kongulai Water Treatment Plant
 - Contract awarded to Rean for USD 15,646,656 with a start date of 5th May 2022.
 - Contractor is significantly behind schedule but has progressed most preparatory items, and commenced site earthworks by April 2023.
- Honiara Wastewater Ranadi Rd (Ela Motors) to Goodwood Outfall sewer works
 - Contract awarded to Pacific Engineering Projects Ltd (PEP) on 4th October 2022 for USD 6,044,066. Preparatory site works including site office, and delivery of pipes was substantially completed by April 2023.
- Provincial Water Supply upgrades for Noro, Munda, Gizo and Tulagi
 - Designs substantially completed and submitted by consultant (Suez) by 31st December 2022.
- Under component 5 Watershed Protection (Global Environment Fund (GEF) financed), water quality monitoring equipment was maintained and data collected at seven sites.
- Coordination between key stakeholders for catchment management was improved through workshops and cooperation in various fields of work (nursery production, assessment of logging applications, settlement expansion etc.)
- An international consultant (Nakau) and a local NGO commenced work in December to develop a forest carbon PES project and a strategy for income generation for customary land owners of the target catchments. A high level consultation workshop was undertaken in February with central agencies and research into Kongolai land owner groups, the land titles registry and relevant court cases was completed and workshopped late April.

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). This grant conditions were satisfied and it was declared effective by ADB on 28th April 2023, some 3 years and 7 months after it was signed;
- (iii) a grant of USD 9m (ADB), a concessional loan (COL) of USD 28.0m from ADB which was approved on 25th September 2019, a Subsidiary Grant of USD 4.6m signed on 25th January 2022; and,
- (iv) USD 9m in-kind contributions from Solomon Water (SW).

The Solomon Islands Government (SIG) will contribute USD 11.473 million equivalent through the exemption of taxes and duties. The 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 28th April 2023 is a major step forward. It was hoped this would enable at least the first (Gizo) of SW's three planned water supply contracts to go to market in Q2 of 2023. However this will be delayed by further design work required for Gizo WS to address the adequacy of the proposed water sources.

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) was 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) project was completed and the contract expired on 31st December 2022. The total contract value is USD 3,710,771 of which some USD 1.0m remains but will be disbursed in the coming months as now completed tasks are billed and paid.

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

Project	Status as at 28th April 2023	Contract Duration (Award to Completion)	Construction Cost Estimate USD ⁽²⁾
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 – Sep '23)	6,044,067
Honiara Wastewater – National Referral Hospital (NRH) Sewer Works and Outfall	Deferred until additional funding is secured ⁽⁶⁾	TBC	13,200,000
Honiara Wastewater – Ranadi Sewer Works and Outfall ^(4 & 5)	Expected tender release June '23 ^(1 & 6)	24 months (Aug '23 – Jul '25)	23,800,000
Provincial Water Supply (PWS): Noro ^(3 & 4)	Expected tender release May '23 ⁽¹⁾	24 months (Jul '23 – Jun '25)	3,100,000
Provincial Water Supply (PWS): Tulagi	Deferred until additional funding is secured	TBC	4,400,000

Project	Status as at 28 th April 2023	Contract Duration (Award to Completion)	Construction Cost Estimate USD ⁽²⁾
Provincial Water Supply: Gizo ^(3 & 4)	Tender deferred pending resolution of water source	18 months (Jul '23 – Dec '24)	9,400,000
Provincial Water Supply (PWS): Munda	Deferred until additional funding is secured	TBC	5,200,000

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

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

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

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

⁽⁵⁾ Excludes the cost of Honiara Wastewater – Ranadi Rd to Goodwood Outfall Sewer Works.

⁽⁶⁾ EIS has been completed and development consent application was submitted by PMU to MECDM on 6th February 2023.

PRF grant expiry – The extended ADB grant expired on 31 December 2022. Suez made an effort to complete their services by that date and attempted to submit numerous deliverables electronically in the last few days of December 2022. In practice the attempted online delivery method via Suez's SharePoint cloud service proved unreliable and the consultant was requested to arrange physical delivery on storage media. A set of deliverables was received by SW on USB stick by courier on 28/03/23. These were found not to include design calculations and Suez were requested (on 18/04/23) to send them also. Although Suez have undertaken to address any comments from SW on their deliverables and submit final versions without further cost, this both puts additional pressure on SW to respond to many deliverables in a reasonable. Additionally, on 19th April 2023 Suez delivered two Notice of Dispute memos to SW regarding their earlier claims for additional costs of USD 1,389,229 and giving notice of a new claim for interest charges incurred due to non-approval and non-payment by SW of Suez' deliverables.

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

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, are currently in progress.

3.1.2 Kongulai Water Treatment Plant & Pipeline Project

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

Construction Period: 14 months (60 weeks)

Contract awarded to REAN-PCS Joint Venture of India in April with a Start Date of 5th May 2022 and the Intended Completion Date of 29th June 2023. Progress is delayed by the contractor leading to fundamental breaches of Contract being notified. Solomon Water Board of Directors was notified of the breaches of Contract in August 2023 but opted to continue with REAN at that time. The option to terminate the contract may be revisited at the May 2023 Board meeting. No physical works are yet underway with delays arising from the Contractor's failure to provide CESMP, Insurances and Design. It is anticipated that the Contract is at least 10 months behind schedule.



Figure 1 Bulk earthworks at Kongulai WTP site (28/04/23)



Figure 2 Children crossing Kongulai WTP work site (28/04/23)

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 SR to Naha Trunk Main; and,
- (iii) Panatina SR to Burns Creek Trunk Main.

The project was awarded to Pacific Engineering Projects Ltd (PEP) with a Start Date of 16th June 2022 and with construction originally estimated to be completed by 18th December 2023 although this is extremely unlikely to be achieved. PEP's Contractor's Representative arrived in Honiara in July 2022 and materials and equipment are being mobilised. However progress of physical works has not commenced and the contract is estimated to be 6+ months behind schedule. There are no pipelines installed as yet.

The ADB funded 4-lane road works upgrade project from Town Ground to White River was awarded to China Civil Engineering Construction Company Co Ltd (CCECC) who were due to commence works in this reporting period. CCECC is now expected to postpone commencement until after the Pacific Games in December 2023.

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 commence 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.



Figure 3 Trunk Mains – Contract signboard (Photo 21/03/23)

As a practical matter, SW is seeking to engage an international consultant (NRW Ltd) through a sole-source bid waiver to undertake the redesign work. The cost estimate for NRW's services (incl. Contingency) is SBD 470,000 which will become an additional cost to the project.

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 (PEP IE) with a Start Date of 3rd May and an originally expected completion date of 4th November 2023.

However PEP JV's progress has been disappointing and is now far behind schedule. PEP JV is currently still working on mobilisation of staff, procurement of materials for works, site offices, laydown areas and staff accommodation. Progress was minimal during 2022, we are now 12 months into an 18 month contract with no concrete poured. PEP JV made renewed promises of increased effort in January 2023 but little improvement has been observed.

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.



Figure 4 Exposed water main during excavation at Tasahe reservoir site (18/04/23)

SW has engaged an individual international structural engineer consultant to assist with guidance on any anomalies and ambiguities in the design of the reservoirs carried out by Suez. This is being done as a matter of urgency to ensure that current deficiencies that have become apparent, do not translate into substantial time and cost variations for the contract.



Figure 5 Panatina Reservoir – Demolition of old tank (Photo 19/01/23)

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. 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

Design was substantially completed by SUEZ in 2022, and had been delayed pending confirmation of EU funding (received 28th April 2023).

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 were 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 Q3 2023. 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 31st December 2022. Further investigations and design are required for the water source and then updates will be required to the designs and bidding documents. This project is likely to be at least partially funded by the Australia Department of Foreign Affairs and Trade (DFAT), and discussions are underway to confirm the required funding arrangements. 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 their existing Phase 2 consultancy contract to undertake the additional design and investigations required.



Figure 6 Disused tank to be rehabilitated, Jaa Mountain, Gizo (Photo 21/04/23)

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 work 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 5.9m)

Estimated Construction Period: 10 months

This project was extracted 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. The work is still in the pre-construction phase although many materials are on order and some (pipes) are on site. Poor performance by the contractor PEP on this and its two other concurrent SW sub-projects (Trunk Mains, and Service Reservoirs) indicate this sub-project must be regarded as at very high risk of not being commissioned in time to serve commencement of the South Pacific Games in November 2023.



Figure 7 Ranadi Goodwood – Sheet piles on site (April 2023)



Figure 8 Ranadi-Goodwood – PE pipes on site (Photo 3/05/23)

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 both

A final draft of the EIS incorporating both ADB/WB comments was completed in December 2022. Additional comments were received from the WB RSA in January 2023. After review of these comments and approval, from ADB/WB the EIS was submitted to MEDCM for review and public disclosure. A meeting was held between SW and MEDCM in March, 2023 in regard to the EIS and the public meeting was held on 5th April, 2023.

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 have been used to design Package 2 – Hygiene Promotion, and to form a baseline to evaluate the WASH program at program completion.

Package 2 – Hygiene Promotion

The Hygiene Promotion package is being implemented by Plan International and Live and Learn. Whilst the original contract was to end in November 2022, a series of short no cost extensions have been agreed that allowed work to continue whilst a new contract is negotiated between Plan International and the ADB Regional WASH TA. Currently the Plan International contract will finish at the end of April.

The package includes hygiene promotion and sanitation activities. Key hygiene promotion activities completed during this reporting period included:

- Analysis of social media campaign for hygiene promotion was completed. Five “promoted” advertisements ran simultaneously and continuously across Facebook and Instagram from the 4th September to the 1st October. The ads ran all day with a budget of AU\$15 per day. Each post was accompanied by the caption ‘U wasim han tu?’ which was the slogan for this campaign.
- **Performance overview**
Reach: 139,712 (total number of people who see the advertisement)

Impressions: 410,735 (total number of times the advertisement has been displayed)

Frequency (average number of times each person saw an ad): 2.94



Figure 9 - Social Media Posts – Hand Washing

- The menstrual health campaign has continued on social media and radio with various radio messages and social media posts being promoted. Three poster designs were also produced that matched the social media posts. These were displayed in various central locations in target areas, including shops, schools and community meeting places.
- On social media, five paid advertisements ran simultaneously and continuously across Facebook and Instagram from 17th October to 20th November. The advertisements ran all day with a budget of AU\$15 per day. Each post was accompanied by the caption 'Do you support women and girls too?' which was the slogan for this campaign.
- **Performance overview**
Reach: 145,856
Impressions: 506,522
Frequency (average. number of times each person saw an ad): 3.47

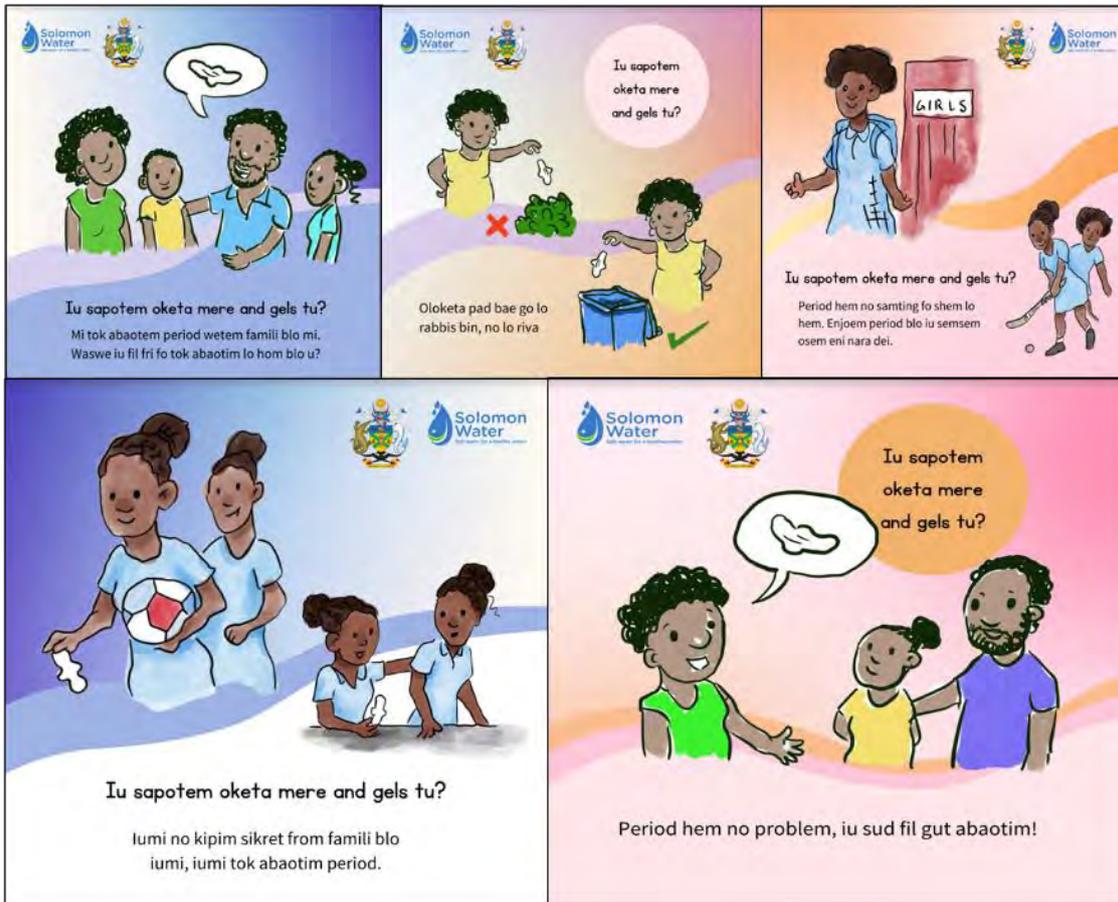


Figure 10 - Social Media Posts - Menstrual Health

- In January 2023, face-to-face hygiene promotion activities with community members in the target settlements were conducted, with 45 participants from the target settlements (24 male, 21 female).
- Preparatory work for a sanitation behaviour change campaign was conducted with the development of messages and materials.
- In January 2023, a recall survey was conducted in the six settlements to gauge message penetration and retention among the target settlements. The survey covered the hygiene campaign and menstrual health campaigns and engaged with 138 participants (54 male, 84 female). Preliminary findings show excellent message recall for both campaigns. These include;
 - Almost everyone surveyed (93% of 115 respondents) said that they remembered seeing a poster, social media post or heard something on the radio promoting hand washing.
 - The most common places to see/hear promotion was at a local community event, on a poster or on a billboard.
 - 82% remembered who promoted message - mostly 'Live & Learn.'
 - Almost half (48%) remembered the message well and 99% said that they made changes personally or in their family after viewing the ad.
 - Additional feedback on the campaign included mostly positive comments, including the importance of community awareness.

Key sanitation activities have included:

- The completion of ‘plumbers training’ for 15 plumbers (1 female, 14 male) operating in the Honiara area, particularly the target settlements. The training utilised the latest draft Sanitation Technical Manual as its basis, providing classroom-based learning in addition to practical, hands-on construction training in the proposed sanitation models that are detailed in the manual. Attendees included plumbers, masons, community leaders, and Solomon Water staff. The training focused on;
 - Conducting percolation tests
 - Sizing septic tanks and soak away pits,
 - Upgrading and improving’ existing sanitation systems
 - Construction of designs detailed in the manual
- Completed Volume 1 of the Sanitation Technical Manual.
- Construction of two demonstration latrines in two separate locations – Independence Valley (White River) and in Mamulele communities in locations agreed to by the community.
- In **Mamulele**, the toilet system was built near a community prayer house which also accommodates a gym room that the community uses for training.
- In Mamulele, it was planned to construct a double cesspit however the selected site is next to a stream with a high water table (about 1 metre below the surface). The selected site also had an existing, incomplete septic tank nearby, so it was agreed to connect the cistern flushing toilet to the existing septic tank, which was retrofitted/improved, with alternating option to a shallow cement culvert cesspit as a backup for when the septic tank is full and awaiting emptying. A greywater soakaway was constructed using tyre linings. As it’s a retrofit, the outcome is a combination of the cesspit pit and septic storage concepts captured in the Manual.

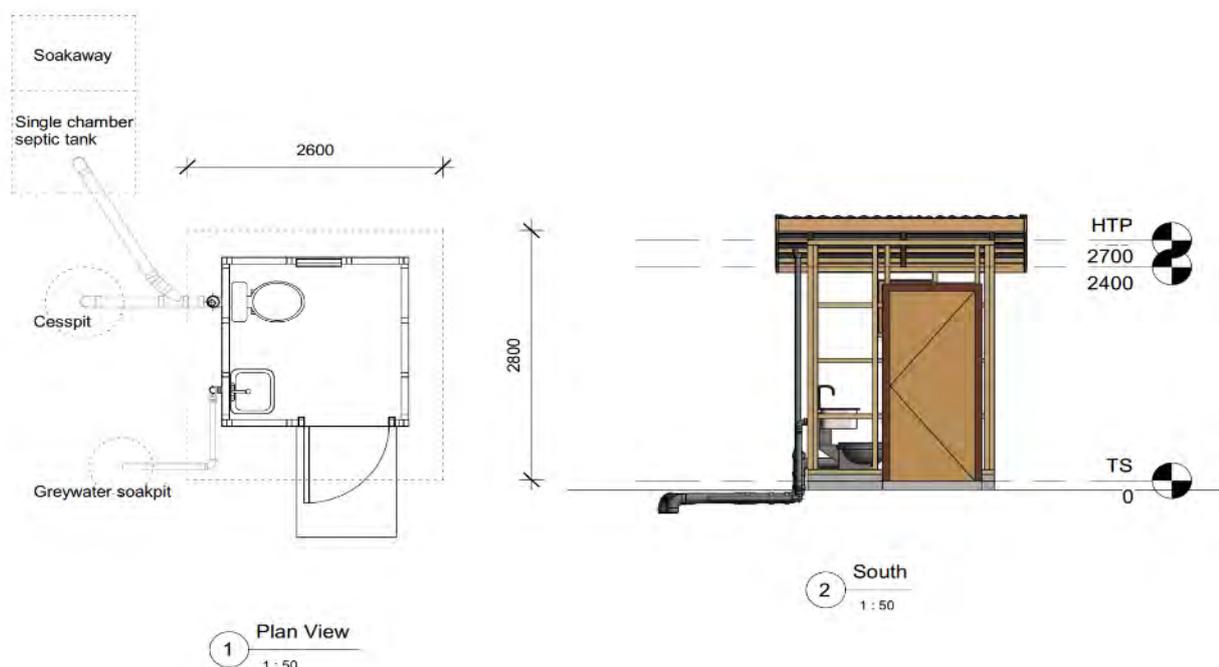


Figure 11 – Schematic Mamulele and Independence Community Toilet Systems



Photo 1 - Mamulele Community Toilet System

- In **Independence valley**, the toilet system was built near a private area belonging to the community leader which is often used by the community during community activities. Community members were engaged in this decision and agreed on the location.
- In Independence Valley a cistern flushing toilet with septic tank and honeycomb brick soakpit was constructed.



Photo 2 – Independence Valley Community Toilet System

Package 3 – WASH in Schools (WinS)

During this reporting period the team have been updating the Schools Assessment Report in preparation for reviewing the WinS design. This has included a focus on whether any of the target schools have received any assistance during the last three years with a view to avoiding any repetition of support or overlap with other projects.

Provided funding is assured then the current WinS design will be reviewed and updated to reflect the current situation.

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).

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 made progress 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 at Panatina are completed and the boreholes have been commissioned. Drilling works for BH 3 is on track. Total completion of the project is now projected to be end of May 2023 due to delays in supply of piping and headwork materials from Australia.

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

Component 3 – Citywide Sanitation has now been cancelled. Whilst every effort has been 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. Work is ongoing in Auki.

This Provincial WASH work has also included a hygiene promotion program for each town. Hygiene promotion work was completed in Gizo in the previous quarter and planning and preparation has continued during this quarter.

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

3.3.3 National Media Campaign – Hygiene Promotion – Core Business.

Implementation of the 2023 Hygiene Promotion campaign with St Barnabas and St Albans women’s groups has been slowed because the Health Promotion Divisions of the Ministry of Health and Medical Services and Honiara City Council have been busy with the planning of the South Pacific Games.

The only hygiene awareness session conducted so far has been with the Mothers Union of the Anglican All Saints Church. Solomon Water staff covered topics such as the importance of hand washing at critical times with clean water and soap, and of using an effective toilet. The Mothers Union members expressed great appreciation for the awareness.



Figure 12 - Hygiene Promotion Campaign at All Saints Church Mothers Union Group

With support from the Regional WASH TA the WASH Z Card has been received by Solomon Water in Honiara and distribution is ongoing at the following Solomon water offices:

- BJS Customer care office
- Gizo Health Promotion & Environmental Health Divisions
- Noro Customer Care office

Z Cards are also being distributed through the National and Provincial Health Promotion Divisions, HCC Health Promotion Units, WASH partners Plan International and Live & Learn, and to schools and WASH project sites.



Figure 13 - Z Card Front Page



Figure 14 - Z Card Back Page

On Tuesday 14th March 2023 discussions were held with the National Director of the Health Promotion and Environmental Health Divisions on the following:

- The importance of the engagement of WASH stakeholders in the ADB Regional WASH Project in particular the Government HPD & EHD at the Provincial and National Levels, Live & Learn and Plan International.
- Updates on the DFAT WSSVCP in the four provincial towns in particular the Hygiene Promotion Campaign in partnership with the Provincial HPU & EHD.
- If the National HPD & EHD could allocate staff to be actively involved with the planning and the implementation of the campaign with Solomon Water, Live & Learn and Plan International at all project sites and other areas in Honiara.

The HPD Director commented that before going further with the other campaigns it is important that the Regional WASH TA makes a courtesy call to the planning and policy division to ensure alignment with the MHMS National Health Strategic Plan and Framework.

3.3.4 Overview of Progress

Whilst it is still early in the project period to measure tangible outcomes, particularly in terms of hygiene behaviour change, there are positive signs that the component is supporting people to improve their own standards of living.

The WASH Component of UWSSSP includes the following planned outputs:

Planned Output	Status
Increase in the number of households in the selected settlements with a close communal / or household level water supply.	Complete - To be assessed at completion
Deliver hygiene promotion program (NGO led and implemented activities)	Complete / Ongoing
Improved WASH hygiene behaviour and knowledge in selected communities (NGO led and implemented activities)	Ongoing - To be assessed at completion
Increased use of a toilet as an effective barrier to the transmission of disease (NGO led and implemented activities)	Ongoing - To be assessed at completion
Improved WASH facilities and hygiene behaviour in selected schools (UNICEF and NGO led activities)	On hold due to funding
National Hygiene Promotion Campaign (SW led and implemented activities)	To be assessed at completion

The WASH Component is working in six settlements in Honiara and has improved the provision of raw water and the number of household connections in those settlements. At the beginning of the project a WASH Baseline Survey was conducted that allowed the project to gather key data for use in evaluating the impact of the Project. One of the questions asked was “*What do you consider is your main source of water?*” **Figure 8** below shows the responses from the six settlements and indicates that 33.9% of households considered their main source of water to be from a household connection.

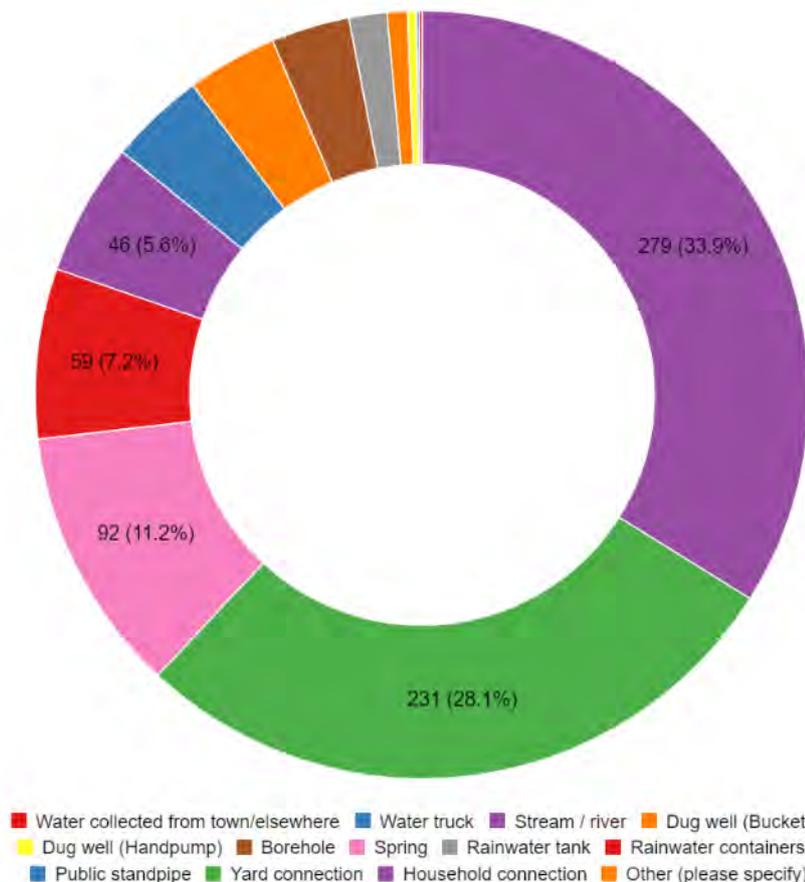


Figure 15 – Households Main Source of Water in the Six Settlements at Project Start

The Project has installed 3,172 new connections in settlement households during the Project period providing water to approximately 22,000 people.

Settlement	New Connections	Population
Kombito 1	852	5,964
Kombito 2		
Kombito 3		
Mamulele	217	1,519
Green Valley	308	2,156
Independence Valley	-	-
TOTAL	1,377	9,639
Other Settlements	1,795	12,565
TOTAL	3,172	22,204

This has included 1,377 in the selected six settlements. Given that the population of these six settlements was estimated to be 1,634 households at the beginning of the Project, it is clear that the percentage has increased dramatically and is certainly beyond the target of 75%. If a household size of 7 is assumed, then the 1,377 new connections in the six selected project settlements is providing water for approximately 10,000 people.

Figure 16 - New Water Connections in Settlements

One of the main activities of the WASH Component has been the **Hygiene Promotion Project** being implemented by Plan International and Live and Learn. This has been a 14-month

project that was expected to finish in November 2022. Given the delays through both COVID and the riots around China town, progress has been hindered. SW and Plan International have worked closely together to try to minimise the negative impact of the delays and have agreed several “no cost” extensions to the contract. This has allowed progress to continue whilst a new contract is negotiated with Plan International. The new

contract is between the Regional WASH TA and Plan International and will continue the work of the original contract.

In order to support the assessment of the Hygiene Promotion Project the question “*have you seen hygiene promotion materials in the media?*” was asked during the WASH Baseline Survey. Responses are shown below and indicate that 26% of respondents said they have never seen any hygiene promotion material. Most respondents (49%) who had seen hygiene promotion material had seen it (heard it) on the radio.

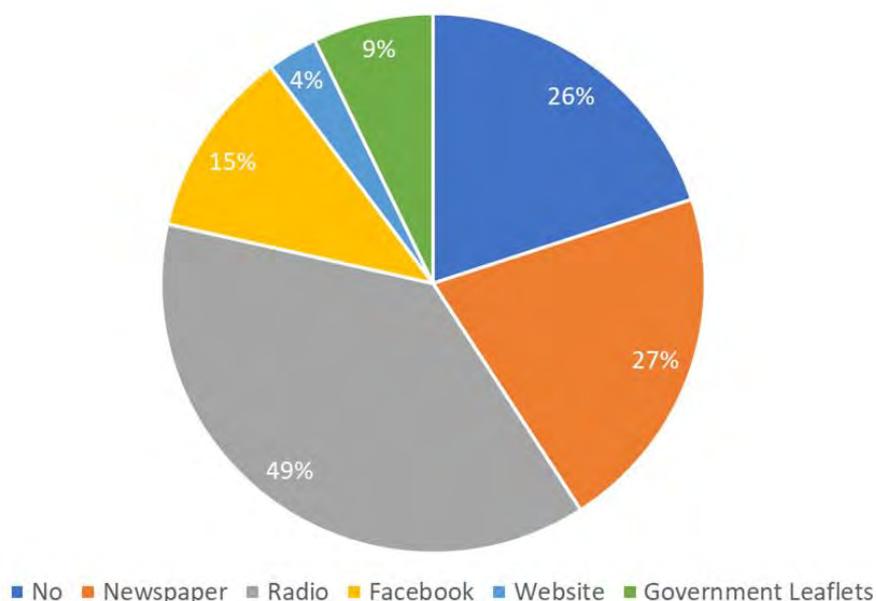


Figure 17 - Have you seen hygiene promotion materials in the media?

Key achievements of the Hygiene Project have included:

- The development and implementation of a hygiene promotion campaign in the six settlements, including the development of materials to promote handwashing and the use of an effective toilet.
- The development and implementation of a menstrual health campaign in the six settlements. The key message for the campaign was “*lu sapotem oketa mere and gels tu?* This has included the production of a range of key posters and social media posts, as well as radio messages and a facebook campaign using a female champion as a key focal point. The program was supported and assisted by an ex Ms Solomon Islands.
- A recall survey has been conducted that indicates high levels of recall of key project messages including:
 - 93% of respondents remembered seeing a poster, social media post or hearing something on the radio promoting handwashing.
 - The most common places to see/hear promotion was at a local community event, on a poster or on a billboard.
 - 82% remembered who promoted the message - mostly ‘Live & Learn.’
 - Almost half (48%) remembered the message well and 99% said that they made changes personally or in their family after viewing the message.

- The development of the Sanitation Technical Manual. This document is now being used as a training aid to help local artisans/plumbers/builders and community members to select, locate, and build their own toilets.
- Two demonstration toilets have been constructed in two of the selected settlements.

A separate **WASH in Schools (WinS)** Project has been designed but not yet tendered. The WinS Project includes infrastructure improvements, hygiene education and promotion, as well as capacity building for local teachers and staff.

Whilst implementation has not yet begun, achievements include:

- Liaison with key stakeholders in Honiara,
- SW joining the WinS Taskforce and sharing draft documents with them for review and approval,
- Conducting an assessment in selected schools to assess the condition of facilities and existing approaches to WASH in the schools and school curriculum.

The **Water Supply and Sanitation for Vulnerable Communities Project (WSSVCP)** includes the following components and has been supported by DFAT:

- Component 1 – Water Availability
- Component 2 – Honiara Vulnerable Households Water Supply
- Component 3 – Citywide Sanitation
- Component 4 - Provincial WASH

The water availability component has both secured and increased raw water availability by fencing critical sources and developing existing spring sources to increase yields. This has seen an estimated increase of 1.3MLD in Honiara with new boreholes at Panatina not yet completed but expected to add a further 1MLD. Also, an increase of approximately 0.2MLD in Auki.

The Honiara Vulnerable Households Water Supply component has completed 3,172 new connections in settlement households, 1377 of these are in the six selected settlements.

The Citywide Sanitation component has now been cancelled. Whilst every effort has been made to identify a suitable location for a WASH Facility, this has not been possible.

The Provincial WASH component is ongoing and is being implemented in four towns. This has included new WASH facilities at critical schools and churches in Gizo, Noro, and Tulagi and similar improvements now being implemented in Auki. In addition, hygiene promotion campaigns have been designed and completed in Gizo and Noro and are planned for Tulagi and Auki during the first half of 2023.

National Media Campaign activities are being conducted by SW staff in collaboration with the Regional WASH TA and local stakeholders including the Ministry of Health and Medical Services. Key achievements have included supporting the development of the WASH Z Card and hand washing jingle. These were done in collaboration with the Regional WASH TA. A series of WASH promotion events are ongoing with local church groups in Honiara.

3.4 Component 4 – SW is financially and Technically Sustainable

3.4.1 Financial Management System Replacement

All training for Phase 1 (Finance & allied functions) has been completed and User Acceptance Testing/Parallel processing (with Magiq) is currently in progress to ensure that Pronto processes are functioning accurately and reliably. Pronto 'Go live' date is 1st May 2023. A team of consultants from Pronto will be at SW prior to and after 'Go live' to ensure the integrity of the process.

3.4.2 Data Management Including SCADA

Bids closed 27th May 2022 with no compliant bids being submitted. A Bid Evaluation Report (BER) was produced and accepted by the SW Board of Directors and subsequently the ADB. The project is being re-packaged and updated bidding documents are expected to be issued for No Objection in Q2 2023.

3.4.3 Tariff

A 'special tariff' application to SIG has been prepared by ADB-funded Wedgewood White Ltd. This tariff application is aimed at primarily covering the high electricity cost caused by fuel price increases not factored into the current tariffs. SW plans to submit the application to Government with the objective of receiving approval for a 1st July 2023 effectiveness date. High electricity costs contributed to SW posting an operating cash deficit for 2022.

3.4.4 Tranche 2 Design

The contract for the Detailed Engineering Design Phase 2 was executed on 2nd August 2021 with SMEC International Pty Ltd. The contract period is 23 months after an Extension of Time recently processed to extends the completion date to June 2023.

SMEC's services include:

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

3.4.5 Faecal Sludge Management (FSM) Specialist

As the FSM Specialist's consultancy assignment came to an end in 2022 no further work was completed in the Q1 2023 reporting period.

During Q4 2022 the FSM Specialist and subcontracted consultants completed and submitted the finalised comprehensive sanitation plan, annex and a summary version. Component documents were also complete. These included: (1) gender action plan (GAP) specific to the sanitation initiative that links with the overall UWSSSP GAP, (2) the CWIS behaviour change and communications plan, (3) climate resilient sanitation plan, and (4) the CWIS specific training and capacity building plan. A proposal was presented for conducting a spatial analysis that will map site conditions throughout GHA and enable links between individual sites throughout GHA and a menu of appropriate technology options.

3.5 Component 5 Watershed Protection (GEF financed)¹

Work during Q1 focused on the following inputs for the three project sub-outputs.

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

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

The importance of managing future developments within critical water supply catchments was further highlighted by preliminary plans for a solid waste landfill facility within the Kombito spring catchment. To support an increased understanding of the turbidity dynamics and sources at the Kombito source, a real-time water quality monitoring station was installed in February 2023.

Following earlier contour mapping and site visits hydrological monitoring was carried out in the Mataniko catchment during February 2023 to assess the potential water intake points above 200 m elevation. These intake points were viewed as a possible source for gravity fed supply to the recently opened Noah Hill settlement area (130 m elevation) and water storage tanks located further east at elevations of up to 150 m.

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. Results from the February field assessments by UQ identified that the Kovi – Kongulai link has recovered from previous blockages, with a secondary sinkhole located 220 m upstream of the previously sinkhole contributing equal volumes of water to Kongulai as the original sinkhole.

Additionally, two sinkholes (Chubina and Churona) have been confirmed to contribute turbidity to Kongulai water source, these sinkholes are located outside the Kovi catchment but connected underground within 500 m to the Kongulai water source. These sinkholes were confirmed to contribute through a combination of manual surveying and dye tracing due to the close proximity to Kongulai and the time required to successfully identify and link the sinkholes. This finding again highlights the uncertainty of water supply through subsurface flows in karst formation networks. These new findings improve SW's understanding of sinkhole extent and dynamics and will allow eventually a realistic delineation of catchment protection zones as shown in **Figure 1** below

Initial results from Ground Penetrating Radar (GPR) surveys revealed interesting rock formations and possible open caverns. However, due to the physical scale and challenges involved in using ground manoeuvred GPR in remote rough terrain it is recommended a standalone feasibility study is conducted to evaluate GPR (both land based and airborne) against other potential stratum mapping methods.

A water quality monitoring station was installed within the Upper Mataniko catchment with initial data showing the stream has a fast reaction time to rainfall events leading to a flashy sharp flow peak with relatively high turbidity events before return to clean water in low flow. Initial turbidity results show that turbidity is greater than 5 NTU for 46% of the time while not feasibly treatable turbidity of >20 NTU is present of 12% of the time. Based on these

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

findings from the February visit it now appears that the Mataniko location would not provide adequate sustainable yield to reliably service the higher altitude areas around Honiara.

Activity 5.1.3 Develop watershed (physical) model

Preliminary consultations had been held in 2022 with The Nature Conservancy (TNC) on the production of a 3D cardboard contour model at a scale of 1:20.000. This model would be used in community and stakeholder meetings to facilitate a better understanding of the geographical situation and underground connectivity between catchments.

No work on this activity was carried out during the reporting period

Activity 5.1.4 Create data, mapping and modelling platform

An interim web data dashboard has been established by UQ and is providing live 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.

Whilst the costs of maintaining the web dashboard beyond the end of the UQ contract are negligible, the real-time water quality monitoring field stations (5.1.2) require substantial maintenance. In addition, the existing water quality monitoring network is communicating through the Iridium satellite network which incurs a significant cost. Over the coming months SW/UQ plan to rationalise the existing monitoring network and make decisions on which stations should continue to provide valuable data for operations and future planning.

3.5.2 Output 2: Watershed Governance Improved

Activity 5.2.1 Stakeholder engagement and problem analysis and

Activity 5.2.2 Catchment governance and coordination

Watershed coordination was followed up by Nakau/SW in a first Catchment Management and PES coordination workshop with 21 participants on 7/02/23. This workshop also provided first information for key stakeholders of the catchment management and Paid Ecosystems Services components of UWSSSP. It also identified further stakeholders and potential synergies with other projects.

Following this workshop high level stakeholder consultations took place in February with the following stakeholders

- Solomon Water
- Water Resource Division – Ministry of Mines Energy and Rural Electrification (MMERE)
- Tina River Hydro Project
- UN Habitat follow up on earlier SPREP “From Ridge to Reef” Project
- Land Reform Unit – Ministry of Lands, Housing and Survey
- Ensuring Resilient Ecosystem and Representative Protected Areas in the Solomon Islands Project (EREPA)
- Climate Change Division – Ministry of Environment, Climate Change, Disaster Management and Meteorology (MECDM)

The findings from the workshop and the consultations were summarized in a report by Nakau: Notes from stakeholder start up workshop and consultations.

The ongoing call under the German International Climate Initiative IKI for 2022 was followed up, leading to the submission of a concept note on 29/02/23. The concept note

by GIZ/SPC reduced the set of potential recipient countries to Papua New Guinea and Solomon Islands only.

Activity 5.2.3 Facilitate catchment management planning.

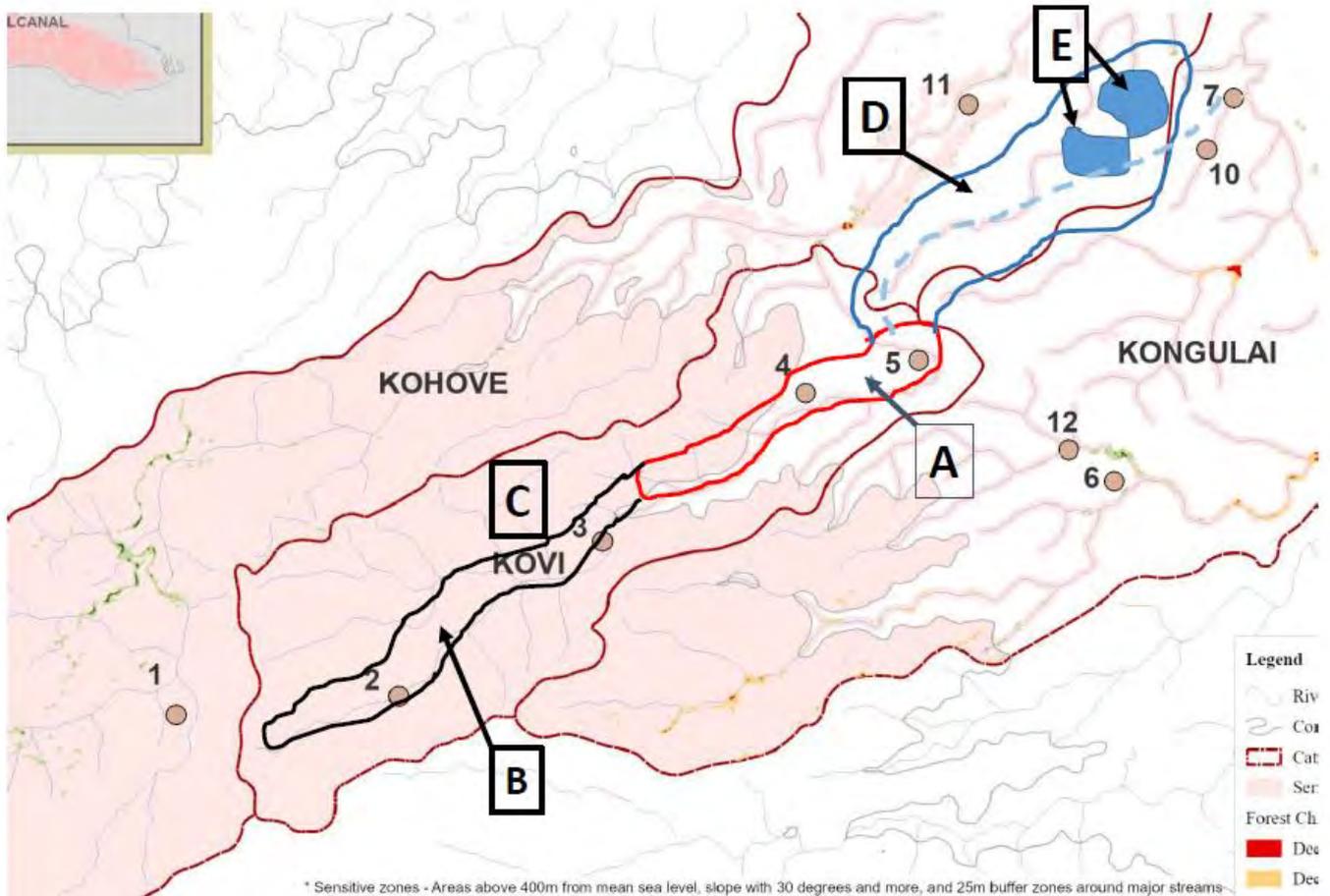
Further reviews were carried out by the international catchment expert on earlier SI publications (e.g Water Resources Bill 2006) related to the formation of a catchment working group, protection zoning and setting up of a catchment fund.

The international catchment expert is assembling a progress draft of this and other assignment deliverables, for the first week of May for consideration by SW and the MTR mission.

Water Protection Zoning

A first draft of catchment zoning was prepared for the Kovi catchment and its linkage to the Kongulai spring based on internationally applied methods (e.g. EPIK) and the findings of the hydrological monitoring by UQ as shown under 5.1.2

Figure 1: Kovi catchment: Protection zoning draft



Legend

- A. Immediate intake zone with sinkholes/disappearing stream sections of Kovi River
- B. Upstream section of Kovi River requiring erosion control measures
- C. Remaining section of Kovi catchment (areas above 400m elevation, pink colour)
- D. Surface corridor above underground stream to Kongulai spring

- E. Charona and Chubina sinkholes and cave network and 5 Kovi sinkholes
- 4 and 5 Kongulai Sinkholes/disappearing stream sections
- 7. Kongulai Spring

Establishment of a Catchment Fund

In order to assess funding requirements for restoration work first attempts were made to estimate unit costs for such activities. These included both engineering structures (eg. bend weir systems) and vegetative measures (vetiver grass, hedgerows and the application of various forms of brush and branch layers).

First assessments were undertaken by the International Catchment Expert of required funds for compensating customary user groups for possible restrictions on logging, on-processing of timber and marketing. These suggest that forest carbon based PES systems may only be sufficient for a full compensation in cases where logging is carried out in partnerships with companies. In cases where user groups control the complete value chain up to the marketing of timber such PES payments may not be sufficient.

It appears currently that restoration and reforestation work may have to be funded from other sources.

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

Community livelihoods:

The engagement in restoration work is expected to be a key component of income generation for customary user groups. The operation of small community level nurseries for plants to be used in conservation and reforestation work will be essential. Vetiver grass will play a key role in this context.

The start-up production of vetiver was followed up further in cooperation with Solo Enviro Beautification nursery. The use of recycled plastic bottles as a substitute for root trainers in combination with coir fibre has been successfully tested over the last 6 months. Sufficient plant material will be available within the 3 months to shift some of the production to proposed user group level nurseries. First trials with vetiver grass in stream bank restoration will commence soon at the Mataniko river (SW Tuvaruhu depot) to test various planting lay outs and techniques.

Forest Carbon PES

NAKAU and Live and Learn, the selected NGO's for livelihood development and forest carbon PES projects, organized or participated in the following coordination meetings beyond the start-up workshop under **5.2.2**

- (1) Organization and facilitation of a Project Planning Meeting on 16/01/2023 to discuss social context of the water catchment sites
- (2) Attendance at a technical meeting with Solomon Water and University of Queensland to discuss biophysical aspects of the water catchment sites.
- (3) Development of PES options analysis and report preparation: social baseline and stakeholder analysis, bibliographic review and data collection from relevant stakeholders (GIS Spatial data, Land Registry Titles, Logging Licenses etc.)
- (4) Facilitate Project Management Unit meeting for the month of March 2023 (08/03/2023)

- (5) Participation in PES Meeting organized by Permanent Secretary MECDM and facilitated by the Environment and Conservation Division (ECD)
- (6) Participation in EREPA Project Data Gathering Workshop.

General Project Management

Regular online meetings were held with SW, the University of Queensland and Nakau/Live and Learn on issues of hydrological monitoring, mapping work and development of catchment related PES projects

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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.

Solomon Water received confirmation from World Bank within this reporting period that the oversight of World Bank safeguard policies for UWSSSP is transferred to the task team safeguards specialist (Bonnie and Joyce). SW will no longer need to seek Regional Safeguard Advisor approval for safeguards instruments. This change is achieved as a result of Solomon Water PMU safeguard team's strong commitment to manage safeguard risk and to pro-actively organise training for contractors to improve their quality of documentation.

4.1.1 Safeguard Documents

During Q1 2023, there has been ongoing review and updating of the Initial Environmental Examination (IEE)/Public Environmental Reports (PERs) required for the UWSSSP projects. The key matters arising during this reporting period were:

- Noro Water Supply Project and Munda Water Supply Project IEE/PER were approved by ADB/WB. Noro and Munda Water Supply Project development consent applications were submitted to MECDM for their review and approval. Notice of meeting for public hearing was issued by MECDM for these two provincial subprojects. Public consultations and disclosure of the PERs was undertaken on 9th and 10th February 2023 in Noro and Munda town respectively. Noro PER was approved in this reporting period by MECDM. Development consent issued by MECDM on 29th March 2023. Approval of Munda PER is expected to be completed in Q2 2023.
- The Gizo water supply project IEE/PER revision and finalization is further delayed awaiting approval for more hydrogeological investigations at Mile 6 Lake and surface water sources.
- Additional comments from the RSA were received and the EIS was updated by the EIS team leader. The updated HNWW EIS was reviewed and approved by ADB/WB in this reporting period. The HNWW development application was submitted to MECDM on 6th February 2023. Notice of meeting was received from MECDM for the public consultation and disclosure of the EIS in Honiara. The Public consultation and disclosure of the EIS was undertaken in Honiara on the 5th April 2023. Approval of the EIS is expected to be completed in Q2 2023.
- Review and updating of CESMPs was ongoing throughout this reporting period. The CESMP for Sewer works at Ranadi to Goodwood has been approved. The CESMP for the Honiara Network Water Supply Project – Trunk Main is still undergoing review. Required approvals are expected to be completed in Q2 2023.
- **Table 4-1** 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 March 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
Honiara Water Supply					
Kongulai Water Treatment Plant	IEE/ PER	Approved by MECDM. Approved by ADB/WB.	12 th March 2020	1 st May 2020.	Approval by WB Regional Safeguard Advisor (RSA) received on 9 April 2021.
Honiara Network Water Supply-Service Reservoirs	IEE/PER	Approved by ADB/WB.	21 st January 2021	17 th March 2021	Updated IEE/PER resubmitted to WB/ADB on 6 th October 2021. No objection received on 29 th October 2021.
Honiara Network Water Supply-Trunk Mains	IEE/PER	Approved by ADB/WB.	21 st January 2021	17 th March 2021	Updated IEE/PER resubmitted to WB/ADB on 6 th October 2021. No objection received on 29 th October 2021.
Provincial Water Supply Schemes					
Auki	IEE/PER	Approved by MECDM. Approved by ADB/WB.	10 th August 2018	24 th September 2018	Project currently in operational phase. Defects liability period lapsed on 12 th October 2021.
Tulagi	IEE/PER	Approved by ADB/WB.	25 th January 2021	7 th March 2021	Updated IEE/PER resubmitted to WB RSA on 12 th October 2021. No objection received on 19 th November 2021.

UWSSSP Subprojects	Safeguard Documents	Status as at end March 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
Noro	IEE/PER	Approved by ADB/WB	6 th December 2022		The IEE/PER was cleared by WB RSA on 21 st 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 th February 2023 in Noro town. Noro development consent granted by MECDM on 29 th March 2023..
Munda	IEE/PER	Approved by ADB/WB	6 th December 2022		Approval from WB RSA received on 9 th 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 th February 2023 in Munda town. Approval of the Munda PER is expected to be completed in Q2 2023.
Gizo	IEE/PER	Review and updating of report is pending.			Suez Consulting is updating V#4 of IEE/PER based on ADB/WB and RSA comments. Suez is undertaking additional environmental assessments to address one outstanding WB RSA comment in Q3 & 4 2022 Ecological assessment of Mile 6 lake was completed in Q3 2022. Revision and finalisation of the IEE/PER (V#5) is further delayed awaiting approval for more hydrogeological investigations around Mile 6 lake.

UWSSSP Subprojects	Safeguard Documents	Status as at end March 2023	Development Application Submission Dates	Development Consent Issue Dates	Remarks
Honiara Sewer Rehabilitation and Expansion Program					
Honiara Network Wastewater- (Pump Stations and Collector Mains)	EIS	EIS undergoing review awaiting approval from MECDM	DC application submitted to MECDM on 6 th February 2023.		Proposal application submitted to MEDCM on 29 th November 2021. Received response from MEDCM on 14 th December 2021 that an EIS is required. EIS field assessment commenced in August 2022. Draft EIS submitted to ADB/WB on 24 th October 2022. Combined comment matrix from ADB/WB received on 12 th November 2022. Revised EIS (final draft) submitted to ADB/WB on 19 th December 2022. Revised EIS submitted to WB RSA on 2 nd February 2023. No objection received on 3 rd February 2023. DC application submitted to MECDM on 6 th February 2023. Public consultation and disclosure of EIS is expected to be completed in Q2 2023.
Honiara Network Wastewater-Outfalls	EIS	Final draft of EIS undergoing review by SW and EIS team.			Proposal application submitted to MEDCM on 29 th November 2021. Received response from MEDCM on 14 th December 2021 that an EIS is required. Field assessment commenced in August 2022. Draft EIS submitted to ADB/WB on 24 th October 2022. Combined comment matrix from ADB/WB received on 12 th November 2022. Revised EIS (final draft) submitted to ADB/WB on 19 th December 2022. Revised submitted to WB RSA on 2 nd February 2023. No objection received on 3 rd February 2023. DC application submitted to MECDM on 6 th February 2023. Public consultation and disclosure of EIS is expected to be completed in Q2 2023.

4.1.2 Environmental Monitoring

There were routine weekly site visits to Kongulai WTP, Panatina and Tasahe reservoir sites, and the Ranadi-Goodwood sewer and outfall construction site during this reporting period. Works undertaken by the contractors were mainly associated with demolition of existing infrastructures and tanks, site preparation and office set-ups, and excavation works.

Issues identified were communicated to the contractor via NTCs and email for rectification. A key issue identified during this reporting period is the contractors commenced site preparation works without providing site specific management plans for the works that they are undertaking, which is a non-compliance with the CESMP requirements for site specific management plans.

A stop work notice was issued to PEP JV by the responsible SW Project Manager requesting submission of site specific management plans before they can resume construction works. Construction of the service reservoirs and trunk mains are expected to resume in Q2 2023.

4.1.3 Workers' Health and Safety

There were no issues with workers' health and safety recorded for this reporting quarter. The importance of complying with PPE requirements in the approved CESMPs was highlighted to the contractor when doing the routine weekly site visits.

Training

CESMP training was organised for contractors who have current contracts with SW including key sub-contractor staff. The training was split into two one-day sessions due to the large number of applications received. The first session was held on Thursday 23rd March 2023, and the second session on Monday 27th March 2023. Both sessions were held at Solomon Kitano Mendana Hotel in Honiara. A total of 78 participants attended the two training sessions. Key topics covered during the training were:

- CESMP development process
- CESMP Audit/Monitoring
- WB/ADB/SW expectations
- CESMP from Project Managers point of view

The key aim of the training was to share with SW PMU staff, contractors and sub-contractors the donor/SW expectations for the development, implementation and monitoring of UWSSSP subproject CESMPs to ensure that there is a duty of care demonstrated to the environment, the community/public and the construction workers while construction works are being undertaken. Simply put, SW wants to ensure "Environmental Wellness, Staff Wellness and Community Wellness"

The CESMP training was facilitated and delivered by Environmental and Social Safeguard specialists from World Bank, and SW PMU.

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

Proposal applications for Honiara subproject and Choiseul Town Water Supply and Wastewater system were submitted to MECDM in this reporting period. MECDM responded that a PER is required for the Honiara subprojects, and an EIS for Choiseul Town Water Supply and Wastewater system.

The IEE/PER for the Honiara component are expected to be completed in Q2 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 March 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 Q2 2023.

UWSSSP Phase 2 subprojects	Safeguard Documents	Status as at end March 2023	Development Application Submission Dates	Development Consent Issue Date	Remarks
Honiara Water Pipeline Rehabilitation	Proposal Application and IEE/PER	Proposal Application finalised and submitted to MECDM, which responded that a PER is required			Final version of Proposal application received on 28 th November 2022. Proposal application submitted MECDM on 6 th December 2022 to determine whether an EIS/PER is required. MECDM responded on 19 th December 2022 via email that a PER is required for the project. Draft PER is expected to be completed in Q2/Q3 2023.
Honiara Water Network Expansion	Proposal Application and IEE/PER	Proposal Application is finalised and submitted to MECDM, which responded that a PER is required.			Final version of Proposal application received on 28 th November 2022. Proposal application submitted to MECDM on 6 th December 2022 to determine whether an EIS/PER is required. MECDM responded on 19 th December 2022 via email that a PER is required for the project. Draft PER is expected to be completed in Q2 2023.
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 th November 2022. Proposal application submitted to MECDM on 6 th December 2022 to determine whether an EIS/PER is required. MECDM responded on 19 th December 2022 via email that an EIS is required for the project.

To address additional requests by the World Bank with respect the MTR, the following points are noted regarding safeguards.

WB Comment - Assess project's overall results and impacts to-date in terms of development outcomes (identify specific beneficiaries, directly related benefits for primary stakeholders, and potential benefits to be achieved during the remaining project implementation period). Including comparing initial project design with actual progress.

- The Development Consents required for the water supply and sanitation projects have been systematically obtained from MEDCM. In addition, a number of ESMP's for additional sewage work programs have been discussed with MEDCM and exemptions for these works have been obtained. These approvals were obtained in a timely manner allowing the construction program to proceed.
- The successful completion of these projects will meet the objectives of the projects.

WB Comment - Review progress (physical or otherwise), efficiency and adequacy of each project sub-component in terms of delivery of project inputs, activities, and outputs.

- Delivery of project approvals have been satisfactory and have met project timelines. Ongoing auditing of commitments in the CESMP's during construction of the various projects is underway and forms an integral component to meet Safeguards requirements.

WB Comment - Review the project activities with current sector priorities

- The ongoing delivery of the development consents for the UWSSP projects including the EIS for the Honiara wastewater program has been very good. These approvals support the current sector priorities for improved water supply and sanitation outputs throughout the Solomon Islands.

WB Comment - Identify issues and bottlenecks as well as potential remedial actions

- Getting CESMPs completed by the contractor as required by SW prior to construction was a drawn-out process as their quality was not acceptable. Numerous meetings and reviews of the CESMP's were required before their acceptance by SW. The appointment of an environmental contractor by the respective contractors to complete the CESMP's to standard acceptable to SW has resolved this issue.

4.2 Social Safeguards

4.2.1 Status of Implementation of Land Acquisition & Resettlement Plans (LARPs)

During the last quarter there has been on-going updating and implementation of the subproject LARPs, but much time has more recently been spent on reviewing contractors' Construction Environmental and Social Management Plans (CESMPs). A summary of the status of the subproject LARPs is shown in **Table 4-3** and **Table 4-4** which highlight the status of negotiation with the land title owners for each of the subprojects for which LARPs are still being developed.

4.2.1.1 Honiara Water Supply Project (HNWS)

The three LARPs for the Honiara Water Supply Project which have already been approved by ADB/WB are: (i) Kongulai WTP; (ii) Trunk Water Mains Upgrading; and (iii) Augmenting Reservoir Capacity (Panatina, Tasahe, and Titinge reservoirs). All land required for the project, both government and privately owned, has been acquired.

- **HNWS Trunk Mains LARP**. There are two resettlement payments yet to be completed under the HNWS Trunk Mains LARP as follows;
 - **SDA Church**: SDA Church is entitled to 2 payments. One is compensation for a fence (brick wall) (SBD 60,000) that will be damaged during the construction works and the other payment is for the easement access, a total of 84.4 m² for SBD 101,280. The payment for the fence (brick wall) has been made in full. The payment for the easement access was done based on the terms of the MOU signed with the AP where 80% (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. SDA agreed to this arrangement with SW through 2 MOUs that were signed on 21 April 2022. This is for the proposed trunk main section from East Kola Ridge to Kukum SDA area.
 - **Mr Kaitei**: During the development of the HNWS Trunk Mains LARP, the alignment of the pipeline within Mr Kaitei's land at White River area, had not been finalised. An agreement was made with, Mr Kaitei in December 2020 (reflected in Appendix 3 of the HNWS Trunk Mains LARP) that payments will be made to him after the new pipeline works had been completed and a survey for the subdivision of the 5m wide corridor (2.5 m from the pipe centreline) along the pipeline route within this land is concluded. This is to ensure accuracy in the area of the land that is going to be committed for the easement. The agreement also indicated that the cost of the land 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 Kaitei will eventually receive will be updated in the LARP. Mr Kaitei still holds that understanding to date.
- **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. A formal notification for the affected persons for the WTP site was issued on 4th February 2020 and for the pipeline routes on 27th March 2020. These were dates when an inventory of crops, food trees and structures was performed which also served as the cut-off dates for eligibility for compensation. On 18th August 2022, SW issued a final 4- weeks' notice to the APs whose names appeared in the WTP and Trunk Main LARPs and who have already been compensated based on the valuation of the inventory of items they owned. The notice was effective as of 18th August 2022 and ended on 17th September 2022. The notice was timed to allow APs to harvest whatever crops they had planted within the affected areas before construction works commenced. The notice was also intended to inform those who have planted gardens within the affected areas after the cut-off date, to harvest their garden items.

In addition, SW also prepared public notices and put them up around the project site to make people aware of the proposed construction of the WTP and the pipeline works and also to introduce REAN, the contractor. These notices were not issued at the end of Q4 due to sensitivities relating to Kongulai catchment area. Instead, SW organised a courtesy and information session with the landowners of the Kongulai catchment which took place on 12 January 2023. This meeting was attended solely by Kongulai landowners including men, women and children, REAN's management team, SW's Chief Operations Manager, the SW PM responsible for the WTP subproject, and PMU safeguards staff.

- On 3rd 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.
- **Community Advisory Committee (CAC):** A kick-off meeting was held for the CAC set up for Tasahe-Kongulai-White River area. In the meeting, the CAC executive body was set up identifying the chairman and secretary.
- **Kongulai Resettlement Issues:** A controlled site clearance was undertaken at the Kongulai WTP site in February. On 17 February, the SW Safeguards team was called to the site to meet with the original owners regarding two issues raised, namely:
 - A request for SW or the contractor to provide a pig for the landowners to perform a ritual to signify the commencement of activities on the land. The landowners said that this is a traditional practice of the Guadalcanal people, that before any site clearance takes place, a ritual including burning of a pig carcass (to the ancestors) is necessary to ensure the safety of the workers. On 20th February, SW purchased and delivered a pig and a bag of rice to Kongulai for the customary owners to perform the smoking rite, which resolved that grievance.
 - The second issue was that, during the vegetation clearance, some of the trees that were chopped down at the western end of the construction site, fell over the boundary and damaged seven betel nut trees growing outside of the boundary. This required the contractor to compensate the owner based on rates that SW applies to other similar resettlement compensation (which are much higher than rates normally calculated by the Ministry of Agriculture.) SW provided these rates to REAN, who proceeded to meet with the betel nut tree owners (Elia Lauhana and Eva Elia) and paid the compensation. The owners accepted the payment and considered the issue resolved. This event which took place on 3rd March was witnessed by other residents and customary owners of Kongulai.
- **HNWS Reservoirs:** The LARP for HNWS reservoirs (Panatina, Titinge and Tasahe Reservoirs) has been completed and approved by donor partners. The contractor, Pacific Engineering Projects Ion Exchange Joint Venture (PEP IE JV) received a conditional no objection to their CESMP from the development partners on 10th November 2022 to allow the dismantling works on the old Panatina and Tasahe reservoirs to start. On 6th-7th December 2022, PEP conducted awareness to residents at Panatina and demolition works proceeded a week later. Demolition works at Tasahe commenced in March 2023 after the issuance of notices to residents in the vicinity of the tank for their awareness.

- In preparation for the construction works at Panatina reservoir, including the setting up of the site office, SW issued a reminder notice on 10th January 2023 to garden owners who had planted crops within SW land. This was a follow up notice to the one that was issued to the same garden owners on 6th September 2022, to harvest whatever crops they planted within the SW land before construction works commence. The garden owners confirmed that they had already harvested their crops and were happy with site clearance to proceed.

4.2.1.2 Honiara Wastewater Project (HNWW) LARP

The Honiara wastewater subproject is separated into 2 sections. The Eastern Section 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.

On the last day of 2022, (which was the final date of their contract with SW), Suez submitted the draft LARP reports to SW. These reports were assessed by the PMU safeguards team who identified that they were both missing some data on APs, on whose lands the proposed wastewater pipelines will encroach. Additionally, they are pending agreements with title holders, mainly 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 review and approval. Negotiations with land title holders for easement access and land acquisition continued during the reporting period. 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 that will eventually give SW the right to install key infrastructure on their land, is summarised in Error! Reference source not found.3. 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. The status of the MOUs is also summarised in Error! Reference source not found.. This table is related to Error! Reference source not found. which summarises in general, the status of each of the LARPs.

In the Eastern wastewater system, the Ranadi to Goodwood Outfall section has a separate LARP developed specifically ahead of the rest of the eastern wastewater system, due to the urgency to construct that section in time for the Pacific Games in November 2023. The Goodwood LARP received an all clear from the development partners on 6th September 2022. Pacific Engineering Project Limited (PEP) was awarded the contract to construct this section of the infrastructure. On 4th January 2023, PEP submitted their first draft of CESMP for review. The PMU safeguards team carried out several reviews before the CESMP was finally able to be approved by the Development Partners on 24th February 2023, which enabled construction works to commence.

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 in Error! Reference source not found.3. At the start of Q4 2022 the South Seas Evangelical Church (SSEC) was strongly opposed to SW's intention to install a twin pipeline through their land. Despite this

opposition, on 17th November 2022, SW made an offer to SSEC based on the market value for the section proposed for the easement access to give SSEC another opportunity to reconsider their initial stand. SSEC accepted SW's proposal which opened up room for negotiation. The SSEC board was going to meet, in order to come back to SW to finalise the deal, within Q1 2023, but this did not happen. SW is now expecting to hear back from SSEC in Q2 and to finally sign an MOU with them, 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 17th 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). In late November, SW engaged the services of a valuer to value all the lands required by SW for pipe installation and the PS. Within this reporting period, SW has been putting together a draft MOU with these offers inserted. The MOU will be submitted to SIPA in Q2 2023.

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 their land (320m²), they could not agree to any of the numerous offers that SW gave them as, according to the owner, these offers did not allow for any 'potential' future business losses which were claimed to be about SBD10M. This price is far above the actual land valuation for the site and quite unreasonable. Therefore, SW is currently in discussion with the Ministry of Lands to see what other options it has, since it is not technically feasible to redesign the pipeline to use another site.

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 most western boundary fence of the compound owned by Tropical Helicopter Company. After an initial meeting held between the Suez design team and TH on 31st July 2022, Suez provided responses to a set of questions from TH on 23rd September 2022. Since then, SW has not been able to get any response back from TH despite SW consistently following up the issue with them, which is very frustrating, and has the potential to delay construction activities.

The status of the MoUs, together with the identified APs for both the Western and the Eastern HNWW are outlined in Error! Reference source not found.. Draft MoUs outlining offers for easement payments have been submitted to the United Church, the Seafront Trustees and Solomon Islands Ports Authority (SIPA). The United Church (UC) and the seafront trustees have reverted to SW requesting an increase in the rate per square metre. This proposal has been approved by SW and the new offer will be provided to UC and the seafront trustees in Q2 of 2023. The SIPA MoU will need to be revised to include the SIPA land proposed for the Point Cruz pumping station. SW has been working on a draft MOU during Q1 which will be submitted to SIPA for their consideration in Q2 2023.

4.2.1.3 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 1st 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 the account number which the APs had provided to SW for the beneficiary bank accounts, had been closed by the bank. SW liaised with APs to reopen their account at their respective banks so that the payments can be made to them. SW confirmed earlier in Q1 2023 that the APs have now received their payments.

- (2) **Noro Water Supply:** The Noro LARP is awaiting signed consent letters from the three landownership parties. Two of the parties of Ziata (Zinihite and Biku) are looking for replacement trustees as those who signed the initial consent and supporting letters for the project in 2020 have died. SW therefore asked the two tribes to identify their new trustees and asked them to provide updated letters of support for the project to proceed. In October 2022, SW sent out the request to the two tribal parties. SW is still waiting for them to respond.

In the meantime, a second pathway for consent has been initiated by the Commissioner of Lands (COL), who has appointed an acquisition officer (AO) to facilitate the proper processes to have the Ziata land legally registered under the rightful landownership. This will enable SW to formally establish a lease agreement with them. During the reporting period, the AO's contract and contract sum was being finalised. SW expects the AO to start the legal registration process at Ziata in Q2. Consent for SW to use the land, through this route, may take much longer than the process of simply getting consent letters from the tribal trustees, but will eventually provide a more robust long-term outcome.

- (3) **Munda Water Supply:** Suez has developed a draft LARP for Munda after consultations were conducted with customary and registered land owners who all supported the project, citing the need for water in Munda. Owners of the customary lands also provided support/consent letters to SW, to allow SW access to the land to carry out pipeline works. SW also requires a reservoir as part of the Munda system. A site has been identified for this purpose 'owned' by the Kere family who are also residing there. This land has not yet been registered and is therefore considered customary land. The Kere family has been consulted on numerous occasions, and they have maintained their support for the project and the siting of the reservoir within the family land.

SW developed a draft MOU with the Kere family on 21st November 2022 which contains calculations of inventory costs for food gardens and trees that were within the proposed site. The inventory date for crops was 31st August 2022 and 12th April 2022 for trees according to SW's records. The family has requested a meeting with SW which was supposed to be organised during this reporting period but has not yet eventuated.

The maps of the proposed pipeline routes in Munda have been provided in the draft LARP but there is still a 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. 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 found to not be adequate, SW will have to look for an alternative source, 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 boreholes was completed at the end of 2022 with results that show the yield is insufficient and that boreholes need to be re-tested and additional sources found. 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 is noted under Error! Reference source not found.3 and Error! Reference source not found.4.

The list of LARPs and their approval status are shown in the following tables:

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

Names of Affected Parties	Type	Requirement for LARP	Status as of 31st March 2023	Comments
HNWW – Western Section LARP (Point Cruz to NRH)				
Solomon Islands Ports Authority (SIPA)	Pump station (PS) and pipelines	MOU for easement access for pipeline and PS.	Ongoing	Valuation has been completed. Next step is to negotiate with SIPA to agree on lease rates. Once rates are agreed upon, SW and SIPA to sign an MOA/MOU followed by payment. Anticipated that SW will offer rates to SIPA by 28 th April 2023.
SSEC	Pipelines	MOU for easement access.	Ongoing	Awaiting SSEC Board to respond to SW with their counter rate for the proposed easement area. Anticipating MOU signing in Q3.
Uniting Church	Pipelines	MOU for easement access	Ongoing	The MOU with an increase in offer based on UC request, will be submitted to UC in Q2 of 2023. Anticipating MOU signing in Q2.
MID	Pipelines	MOU for easement access	Not yet	For works on roadway between Point Cruz – NRH & Tuvaruhu-NRH. A draft MOU will be shared with MID in Q2.
MHMS & COL	Pipelines within NRH and 2 x Pump Stations	MOU for easement access	Signed (18 th Aug 2022)	Completed
Lord Howe Settlement	Pipelines	MOU for easement access	Ongoing	SW has updated an MOU with an increased offer on the easement rate as requested by LHS. Awaiting LHS to accept the MOU. Anticipated signing is in Q2.

Names of Affected Parties	Type	Requirement for LARP	Status as of 31st March 2023	Comments
Seafront Trustees	Outfall	MOU for easement access	Ongoing	Trustees want escrow account clause removed from MOU. However, SW cannot agree to that since the land in question (after the shoreline) is being contested in court – to confirm whether it is legally owned by COL. Still awaiting court decision
HNWW – Eastern Section LARP (Bahai to Ranadi)				
MID	Pipelines (Bahai-Ministry of Fisheries area)	MOU for easement access	Not yet	Nothing done in Qtr. 1. Anticipated MOU draft by SW by end of June
KCM	NAHA PS	FTE Payment for required land size (land acquisition)	Ongoing	SW has in second week of December 2022 forwarded the issue to the MOL for their assistance in acquiring the land, since owner has repeatedly refused SW offers. SW has been following MOL progress on resumption of the land. Anticipated resumption completion by MOL is October 2023
MID	Pipelines (Fisheries to Ranadi Round – about)	MOU for easement access	Signed	This project has been taken over by SIG
MID	Ranadi PS and Pipelines	MOU for easement access and consent	Signed	30 November 2022)

Names of Affected Parties	Type	Requirement for LARP	Status as of 31st March 2023	Comments
Tropical Helicopter	Overflow pipe	MOU for easement access	Ongoing	<p>Still awaiting Tropical Helicopter Manager on his decision whether to allow the pipeline to go through their land. No response to repeated follow-ups.</p> <p>The next action in Q2 is to issue Tropical Helicopter a final letter intending to hand over the issue to MOL for their assistance in the event that no further response is provided.</p>
MID	Goodwood PS and Pipelines	MOU for easement access and consent	Signed	<p>PS (18th August 2022)</p> <p>Pipeline (2nd September 2022)</p>
COL &HCC	Ranadi Landfill PS	MOU for Consent	Signed	October 2022
GPPOL	Pipeline	MOU for easement access	Ongoing	<p>GPPOL latest MOU review requested SW to shift the easement alignment from eastern side towards the western side of the boundary. SW has agreed and will be engaging a surveyor to survey the agreed easement route. Anticipated MOU signing at the end of May.</p>
Seafront Trustees	Outfall	MOU for easement access	Ongoing	<p>Trustees want Escrow Account clause removed from MOU. However, SW cannot agree to that since the land in question is under court - contesting the legality of the trustees. Still waiting the court ruling.</p>

Names of Affected Parties	Type	Requirement for LARP	Status as of 31st March 2023	Comments
<i>Provincial Water Supply – Munda LARP</i>				
Frank Kere, land occupant	Pipeline and Reservoir	MOU for consent and clearance of trees and crops	Ongoing	Draft MOU already shared with the Kere family on 21 st November 2022. A response of support was provided by the Kere family in December but requested to meet with SW to discuss further. Meeting proposed for Q1 of 2023 did not happen. Next anticipated meeting is in June.
COL	Borehole and pipeline	MOU for consent	Not Yet	Consultation has been done with MCA. SW to draft an MOU with the COL in Q3.
<i>Provincial Water Supply - Noro LARP</i>				
Ziata Tribal Owners (Kazakuru)	Upgrade of existing Infrastructure	Supporting letter for the project to proceed	Ongoing	<p>Awaiting all the 3 parties to provide letter of support for the project to proceed.</p> <p>Expecting the support letter to be received during the Acquisition Officer's first hearing in June 2023.</p> <p>To achieve a lease agreement with the LO, SW has to depend on the commissioner of lands (COL) to do a formal registration of the land as a requirement under the Lands and Title Act since the land is still customary. Once the registration process is completed, the land will be registered as perpetual estate to the identified trustees on behalf of the Kazakuru tribes then leased to SW.</p>

Names of Affected Parties	Type	Requirement for LARP	Status as of 31st March 2023	Comments
Provincial Water Supply - GIZO LARP				
Western Provincial Government (WPG)	Pipelines	MOU for easement access	Not yet	Pipeline routes will only follow road right of way. The Western Provincial Government gave consent in November 2022, for works to proceed in Gizo
Dr. Lester Ross & (WPG)	Reservoir	MOU for land acquisition	Ongoing	Draft MOU was shared with late Dr Lester's wife on the terms for the sub-lease agreement on 13 March 23. The rate for the sub-lease was also agreed with by both SW and the AP. Anticipated MOU execution Q2 2023

Table 4-4: Status of LARPs for UWSSSP Sub-projects

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
Honiara Water Supply			
Kongulai Water Treatment Plant	LARP	LARP has been completely implemented.	SW Safeguards continued to monitor the proposed construction activities to confirm that no impacts are made to vegetation outside the boundaries acquired.
Honiara Network Water Supply - Service Reservoirs	LARP	Completed and fully implemented.	Monitoring construction works so that appropriate due diligence is maintained by the contractor - including carrying out consultations before proceeding with activities.
Honiara Network Water Supply – Trunk Mains	LARP	Completed	Outstanding payments to SDA and Mamutei Kaitei as discussed above. (see Section 4.2.1) Final survey work along the pipe route was conducted as part of alignment works but also to identify safeguard triggers captured within the LARP and those that may have been missed.
Provincial Water Supply Schemes			
Tulagi	LARP	Completed and fully implemented.	SW still awaiting MOL deliberation on proposed tank site

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
Noro	LARP	Ongoing. LARP is progressing.	<p>The LARP has been submitted to the development partners for review and comments which were circulated to SW and SUEZ in late May and again in August 2022 requesting clarifications on certain aspects. The LARP is pending consent letters from the 3 parties of land owning group of Ziata that would signify their consent for the upgrading work to take place.</p> <p>Anticipated consent letter signing Q2 2023</p>

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
Munda	LARP	In progress.	<p>The draft is currently under review by SW. A series of agreements are required for easement access and acquisition of land as detailed in Table 4-. The LARP will be submitted to the development partners following formalisation of agreements.</p> <p>The individual ‘owner’ Frank Kere resides on land needed for the installation of reservoir and access road to the proposed new reservoir, which is currently classified as customary land. SW is carrying out ongoing consultation with him.</p> <p>SW has also received inventories of crops and trees growing within the land and proposed road and pipeline access. SW accepts the costs for the compensation of the crops and trees. A draft MOU incorporating the crops’ inventory compensation value was issued to the Kere family in November 2023. Anticipated follow up site visit meeting to discuss further in June 2023</p>
Auki	LARP	Completed and fully implemented.	Project in operational phase.

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
Gizo	LARP	In progress.	<p>LARP has been drafted and was initially expected to be submitted during the last reporting period; however, still pending finalisation of design and pipeline alignment making sure that they do not encroach into private lands. A Gizo land and impact matrix is still being finalised and under verification work. Identification of landownership is currently ongoing with land owner of the site proposed for the reservoir at Jar Mountain already identified.</p> <p>Investigations completed (including hydro-geological) but awaiting decision on the outcome of the report. The weather stations at Jar Mountain reservoir will not be moved; thus new reservoir tank to be relocated to the other side of the road.</p>

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
<i>Honiara sewer rehabilitation and expansion program</i>			
Honiara Network Wastewater (Pump Stations and Collector Mains) Western system	LARP	Drafting of LARP still in progress.	<p>The draft LARP depends on land title holders giving consent through signing of MOU with SW for easement access.</p> <p>The list of all the required MOUs and status are detailed in Error! Reference ource not found.3.</p>
Honiara Network Wastewater (Pump Stations and Collector Mains) Eastern system	LARP	Drafting of LARP still in progress.	<p>The LARP is still pending signed MOUs and compensation agreement between SW and land title owners as indicated in Error! Reference ource not found.3.</p>

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
<p>Honiara Network Wastewater (Outfalls)</p>	<p>LARP</p>	<p>Ongoing.</p>	<p>LARP still in progress. Land parcel titles for seafront underwater section of Ranadi and NRH outfall have been confirmed. An MoU draft containing initial offer has been issued to the seafront lawyer which contains a clause on an escrow account for payments until all due diligence work is finalised. Seafront trustees are seeking the removal of the escrow condition and requested an increase in the rate of offer. SW is willing to consider increasing the rate offer but is unable to remove the escrow clause as there is a pending case in court on the validity of the seafront trustees' land ownership. SW is closely monitoring the case</p>

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
<p>Ranadi Road (Ela Motors) - Goodwood Outfall - Pump station and associated lines</p>	<p>DDR/ LARP</p>	<p>Completed.</p>	<p>A LARP was required (for the Goodwood section of the Eastern HNWW) as there were 3 APs for land including Goodwood Limited (Pipeline and outfall), Seafront Trustees (Outfall), and MID (PS and associated pipes), although compensation was not required. In the cases of the two former APs, the work will be carried out in pre-existing easement access, and in the latter because the work is part of a Government undertaking. Consultation with Goodwood is ongoing between the owners and the contractor on work schedules.</p> <p>All MOUs with the APs have been signed and incorporated into the final version of the LARP which received no objection by the donor on 6th September 2022.</p>

UWSSSP Sub-projects	Safeguard Documents	Status as of end March 2023	Remarks
<p>Sewer works: King George VI - Ranadi Intersection</p>	<p>LARP not required.</p>		<p>ESMP completed to cover urgent needs for forthcoming Pacific Games. WB confirmed that they do not need to approve this document as the works are fully funded by SW and not an “associated facility” according to WB definitions.</p> <p>Suez has completed due diligence, but SW noted that a new PS may be considered due to increased depth of pipes passing under culverts.</p>
<p>Sewer works: Ministry of Fisheries-Kukum Road</p>	<p>LARP not required</p>	<p>Detailed design completed and drawings submitted.</p>	<p>Tenders closed 27th June 2022. Bid evaluation completed. Preferred bidder identified and endorsed by the SW Board.</p> <p>Current Status is all reports are with MoFT/MMERE for confirmation of funds and a draft MoU is with the MID relating to access to their road corridor.</p> <p>Once funds are confirmed and the MoU is signed with the MID, SW will execute the contract with the preferred bidder</p>

4.2.2 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 sites. There will be resettlement and compensation required for the Honiara Wastewater subprojects and the provincial water supply projects including Munda and Gizo, for which LARPs are still progressing. During the reporting period, efforts have been made on consultations and negotiations with APs relating to the ongoing 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 and land acquisitions and also 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: One grievance was received by Pacific Engineering Projects Limited (PEP), the contractor for the Trunk Mains, and was resolved immediately. The grievance was raised by a shop owner regarding a boundary location. PEP sought the assistance of MID to verify whether the proposed pipeline route is within private land or the road reserve. MID was able to clarify to the shop owner that the area in question is within the road reserve and therefore gave the clearance for the pipeline route to be installed in that particular location. The shop owner was also happy with the explanation.

Another grievance was raised during the vegetation clearance for the Kongulai WTP, which has been previously described in **4.2.1**: some of the trees that were felled at the western end of the construction site, landed over the boundary and damaged seven betel nut trees belonging to Elia Lauhana and Eva Elia. This required the contractor to compensate the owners based on rates that SW provided to REAN, who met with the owners. They accepted the payment and considered the issue resolved. This event which took place on 3rd March 2023 was witnessed by other residents and customary owners of Kongulai.

4.2.3 Consultation and Awareness of the Project

A summary of consultations held during Q1 of 2023 is shown in Error! Reference source not found.5 below. With construction works now about to proceed, the SW PMU continues to provide support and oversight of the contractors' consultation requirements to ensure that the APs and the public are properly informed in adequate time before work proceeds. All consultation materials drafted by the contractor go through SW management for clearance before they are used to ensure messaging is correct. The PMU CLO has been instrumental in facilitating this requirement.

Table 4-5: Summary of UWSSSP consultations held in Q1 of 2023

Date	Project	Purpose	Participants	Key Messages
12/01/23	Kongulai WTP (Meeting held at Kongulai)	Facilitate consultation with Kongulai land and catchment owners as courtesy: to introduce contractor and inform residents of proposed start of works; and to explain GRM for both contractor and SW.	Male: 13 Female: 15	<ul style="list-style-type: none"> • Introduce Rean Water Tech to community • Notify community that Kongulai WTP works will start • Reiterate importance of the project • Request continuous support from the community, and make sure they know who to communicate with in case of a complaint
01/02/23	CAC set up for Kongulai WTP - Kongulai – Tasahe. (Meeting held in Honiara)	Facilitate meeting and present to the CAC members the expected CAC roles and responsibilities. Also witness the CAC's election of office bearers including chairman and secretary.	Male: 9 Female: 10	<ul style="list-style-type: none"> • Roles and responsibilities of CAC, Contractors & SW • Identify chairperson and secretary for CAC
09/02/23	Noro Water Supply Subproject (Meeting Held in Noro)	Support Ministry of Environment to conduct the public hearing for the Noro water supply project as part of the requirement of the Environment Act before development consent is issued by the Director of Environment and Conservation Division	Male: 15 Female: 5	<ul style="list-style-type: none"> • Director of ECD to explain the content of the PER about the development works. • SW engineer and safeguards officer to provide clarification regarding designs and other safeguard requirements, processes and timelines

10/02/23	Munda Water Supply Subproject (Meeting held in Munda)	Support Ministry of Environment to conduct the public hearing for the Noro water supply project as part of the requirement of the Environment Act before development consent is issued by the Director of Environment and Conservation Division	Male: 32 Female: 5	<ul style="list-style-type: none"> • Director of ECD to explain the content of the PER on the development works
28/12/22 – 21/02/23	Trunk Mains Upgrade - Kongulai, White River, Rove	Provided oversight to PEP.	Male: 42 Female: 22	<ul style="list-style-type: none"> • Introduction of PEP to community • Initial consultation on works to be undertaken
20/02/23 – 27/02/23	Trunk Mains Upgrade - Panatina to Burns Creek	Provided over sight to PEP	Male: 24 Female: 11	<ul style="list-style-type: none"> • Introduction of PEP to community • Initial consultation on works to be undertaken
22/02/23 – 24/02/23	Trunk Mains Upgrade - East Kola to Kukum	Provided oversight to PEP	Male: 33 Female: 22	<ul style="list-style-type: none"> • Introduction of PEP to community • Initial consultation on works to be undertaken
29/03/23 – 30/03/23	Reservoir Upgrade Project – Panatina Construction	Provided oversight	Male: 16 Female: 14	<ul style="list-style-type: none"> • Construction works to begin • Safety of community and surrounding neighbourhood.

Under the updated Stakeholder Engagement Plan, Community Advisory Committees (CACs) have to be developed. The CAC for Tasahe to Kongulai area has been established with the PMU CLO now assisting the contractors to establish the CAC for the 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.

Unlike REAN, PEP has yet hire a dedicated CLO on their three contracts. Consultation being an important aspect of safeguarding the project implementation, SW has issued several NTCs reminding PEP to urgently recruit a dedicated CLO.

4.2.4 Gender Action Plan (GAP) Implementation

A semi-annual Gender Monitoring Report covering the period July-December 2022 was submitted to ADB/WB on 16th March 2023 as part of the Semi-Annual Safeguards Monitoring Report (SMR). The next GAP monitoring report covering the period from January to June 2023 is in progress and will be submitted in Q3 2023.

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 Q1 of 2023 with consultations proceeding as expected. Since women are the main carers in families they have suffered the most severe impacts. This has now improved and good progress is being made.

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.

The Social Safeguards and Gender team have put a lot of work into reviewing the CESMPs of the contractors who are implementing Honiara sub-projects. 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. Initial drafts of the CESMPs showed little awareness by the construction contractors of gender in infrastructure projects. However, this was significantly improved after ongoing reviews and workshops held with the contractors regarding their CESMPs. Two CESMP implementation training workshops were held in March 2023 for all SW's contractors and subcontractors. This provided the opportunity for the DPs and SW to emphasize the importance of ensuring gender equality within the projects.

Staff gender training:

In July 2022, it was decided to try to complete this work and avoid the weaknesses of the incomplete first round of training undertaken in 2021. The international and local gender consultants, together with the Communication Coordinator developed both ToR for a trainer with plans to implement the training between September 2022 and March 2023. FSC who previous facilitated the Gender training for SW staff in 2021 were not available in 2022, but have responded positively to the Communication Coordinator's query in Q1 2023 as to their availability to continue the training with SW

from where it was left off. The new training schedule will be developed after consultation with the HR team to ensure that staff are committed to the training while at the same time ensuring that normal operations are not affected. It is anticipated that the training for SW staff will commence again in June 2023. The contractors, have also taken ownership of this activity, and they plan to carryout similar training for their staff in the next reporting period.

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5 PERFORMANCE, MONITORING & EVALUATION FRAMEWORK (PMEF)

The separate draft M&E **H2 Semi-Annual Progress Report** was completed and shared internally with SW, PMU for peer review, and then circulated to DPs on 27/04/23. Other Q1 2023 activities under PMEF included the following:

- 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.
- Following the February 2023 UWSSSP review mission, several discussions and a few workshops has been held with SW and PMU team to address some of the data omissions in the previous Semi-Annual M&E reports, including the following:
 - (a) The indicators that can be reported on quantitatively at this stage and for those that cannot be reported in this way, what are the limitations and timeline for resolution?
 - (b) How to best to report on the attribution of WB indicators?
 - (c) Break down of the beneficiary data into the town/city areas i.e. Auki, Honiara to better capture project attribution.
 - (d) Review the units and indicators for any required revisions after restructuring in the mid-term review - in particular NRW and sewer system connection, outfall, ingress and infiltration monitoring.
 - (e) Set the M&E Plan targets for WASH component (where data is available) and include baseline data (where they are missing).
- The M&E Specialist worked closely with the SW Operations team to assess what data is required and at what intervals, including the provision of the operating cost coverage ratio annually at a suitable timing for Solomon Water. Q1 of 2023 was mostly spent on data collection on current output/outcome level indicator values for the M&E framework and Semi-annual M&E report production.
- The report production and submission was slightly delayed due to personal circumstances of the M&E Specialist.

6 AREAS OF CONCERN

Areas of concern are:-

Physical Works

- For the Kongulai WTP sub-project progress is slow with the Contractor (Rean) understood to be struggling with Cash-flow. Delay of this Contract is now well beyond what is considered reasonable. Despite representations by the contractor in January and promises of renewed effort, SW management has seen little improvement in the progress or quality of the works to date. There is a risk of the Contract becoming frustrated due to rising costs and under-pricing of major items.
- Lack of in country resourcing is becoming an issue for Contractors. With the lead up to Pacific Games the local construction market is stretched. Resourcing for Safeguards and Technical roles is becoming extremely difficult to secure which is leading to high burdens on Contract 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 they have won and stretches their resources very thin. PEP are struggling to bring enough resources to bear to progress all 3 projects (combined value approximately \$21m USD) 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.
- Construction of the facilities for the Pacific Games commencing in November 2023, particularly the two stadium areas near King George VI school, require both water and sewerage connections. Water connections have been provided, but the following sewer sections are of the highest priority:
 - Sewer works – Ranadi Road (Ela Motors) to Goodwood Outfall. Currently in the construction phase (since November 2022) but the contractor has yet to start any physical works. There is now an **extremely high risk** that the sewer pipes and outfall will **not be completed** in time to service the PG stadium complex.
 - Sewer works – Kukum Highway (Ministry of Fisheries to Ranadi (Telekom) Roundabout). Under construction and progressing well.
- ADB are funding the upgrade to four lanes of Mendana Avenue from Town Ground to White River with road works now delayed and not expected to start until after the Games. The UWSSSP funded HNWS Trunk Mains project works contractor will now have more lead time to reduce their impact on the road works contractor's work.

Safeguards

- Works contractors have been unable to produce CESMPs that meet the appropriate standards both in technical quality and content to meet DP requirements, and which are also relevant for implementation.

The contractors are also struggling with simply formatting the document in a professional manner. This is reflected by the numerous reviews and revisions by both SW PMU and the contractors. The poor quality of the submitted draft CESMPs

makes it challenging for PMU safeguards team to do a meaningful review of the documents.

The contractors have been advised on numerous occasions to hire qualified safeguards personal even on a short term basis specifically to develop their respective CESMPs to meet the expected standard, but this advice was not adhered to in the last three quarters, resulting in the delay in getting the CESMPs to the DP for review and clearance.

SW has addressed this problem by intensifying its review of CESMPs, providing copious feedback, and holding a special workshop to educate contractors and involve them in a participatory process for developing their capacity. This was facilitated by SW staff, including project managers and the safeguards team, as well as donor partners' staff. The workshop proved so popular that the planned single workshop was oversubscribed. Participants were split into two groups to attend on different days. Feedback has been very positive, and it is hoped that the training has re-emphasised the importance of proper planning for implementation through well designed CESMPs.

- 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.

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 stakeholder 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 (Q2 2023) - PLANNED ACTIVITIES

The following are the main UWSSSP activities planned for Q2 of 2023 and later in the year:

UWSSSP Studies and Designs

- Complete UWSSSP Phase 2 design services (SMEC)
- Review Suez' deliverables and resolve Suez' claims for additional payment from UWSSSP Phase 1 designs

Physical Works

- Implementation of the following sub-project construction works in accordance with their respective contract documents: (i) Kongulai WTP; (ii) HNWS Service Reservoirs; (iii) HNWS Water Trunk Mains; (iv) HNWW Ranadi Rd to Goodwood Sewer Outfall.
- Finalisation of bid documents for the Munda and Gizo PWS sub-projects and release for bidding, dependent upon resolution of design and water source issues for Gizo PWS which is SW's highest priority provincial project. No objections and release of request for tenders also dependent on four party funding confirmation between SIG, DFAT, WB and ADB.
- Release of bid documents for the Noro PWS sub-projects, dependent on sufficient funds being confirmed. (Note: Tulagi PWS on hold)
- Finalisation of bid documents for the Munda sub-projects and submission for No Objection.
- Although there are no formal plans as yet there is interest in the Spatial Analysis for faecal sludge management to be initiated during the quarter, subject to decision making and direction by SW on whether to continue with this activity and to what extent it will drive the activities for the next quarter and beyond.

Environmental safeguards:

- Completion of the approval of the Gizo provincial water supply IEE.
- Finalisation and approval of the CESMP's for the Kongulai Water Treatment Plant & Pipeline Project, the Honiara Water Supply (HNWS) Trunk Mains and Honiara Water Supply Service Reservoirs.
- Public hearing meetings and IEE/PER disclosure for for HNWW Outfalls and Pump stations subproject.
- Approval of EIS and issuance of development consent for the HNWW outfall and pump station subproject by MECDM.
- Completion of IEE/PERs required for UWSSSP Phase 2 subprojects in Honiara and Auki.
- Final approval of the EIS for the HNWW outfall sub-projects prior to submission to the MECDM.

Social Safeguards:

- Continuation of community advisory committees (CAC) for HNWS – Kongulai WTP, Trunk Mains and Service Reservoirs Project sites (under the updated SEP).

- Finalising plans for SW staff gender training; reviewing the content and training materials; agreeing a contract with FSC; and beginning sessions for those who missed the training in 2022.
- 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.

Catchment protection:

- Further field verification of stepwise planning work in priority areas for implementation (e.g. restoration work and conservation)
- Continued hydrological assessments of the target catchments to support protection zoning and planning of conservation and restoration activities.
- Based on outcomes of stakeholder engagement, modelling and mapping results will be made available in conjunction with an improved web dashboard by UQ.
- 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
- Further work on SW Water Catchment Protection legislation including improved zonation for karst and non-karst situations
- 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
- Continuation of nursery operations and field testing of stream bank stabilization methods at the Tuvaruhu trial site.
- Start-up workshops with land user groups regarding PES and income generation. Participatory identification of a communication and outreach strategy.

Performance, Monitoring and Evaluation Framework (PMEF)

Planned PMEF activities for Q2 2023 include:

- Receive DP comments on draft H2 Semi-Annual Progress Report covering the period July to Dec 2022 (circulated 27/04/23), finalise report and submit for donor approval.
- Preparations for mid-term review mission.
- Start data gathering and collation for next M&E reporting period (H1 of 2023)
- Continued implementation and reporting against the M&E Framework (PMEF).

Annex 1: 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) ¹	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds	Safeguards	
									Status @ End 2022	Actions in 2023
Honiara Water Supply										
1.1 Kongulai Water Treatment Plant		Construction			17.00	0.41	11.00	ADB/WB	All safeguards requirements have been met.	Monitor Implementation.
1.2 Honiara Network Water Supply - Trunk mains		Construction			7.79	1.30	5.50	ADB/WB	All safeguards requirements have been met.	Monitor Implementation.
1.3 Honiara Network Water Supply - Service Reservoirs		Construction			7.10	1.92	5.00	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	1.42	ADB/WB	N/A	N/A
Provincial Water Supply Schemes										
1.5 Provincial Water Supply - Gizo ²			Bid & Award	Construction	12.83	0.00	4.00	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	1.80	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	1.00	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
				Output 1 Total	64.75	5.04	29.72			
Output 2 <u>Effective, efficient and safe urban sanitation services</u>	Q1	Q2	Q3	Q4	Project Value (USD m) ¹	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds	Safeguards	
									Status @ End 2021	Actions in 2022
Honiara Sewer Rehabilitation and Expansion Program										
2.1 Ranadi Rd to Goodwood Outfall Sewer Works		Construction			6.65	0.00	5.00	ADB/WB/EU	EIS submitted to MECDM. LARP approved. Exemption received from MECDM.	EIS approval. Monitor Implementation.
2.2 NRH Sewer Works and Outfall			Bid & Award		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			Bid & Award		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
				Output 2 Total	44.82	0.00	5.00			

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		Bid & Award	Implementation		1.09	0.00	0.55	ADB/EU
Output 3 Total						2.00	0.26	1.20	
Output 4	<u>Institutional Strengthening and Project Management</u>	Q1	Q2	Q3	Q4	Project Value (USD m)	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds
4.1	Financial Management System Replacement	Impl	System live			0.85	0.25	0.60	ADB/SW
4.2	Data Management Including SCADA			Bid & Award	Construction	1.00	0.00	0.33	ADB/SW
4.3	Detailed Engineering Design - Phase 2	Implementation				1.90	0.18	1.72	ADB/SW
Output 4 Total						3.75	0.43	2.65	
Output 5	<u>Catchment Protection</u>	Q1	Q2	Q3	Q4	Project Value (USD m)	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds
5.1	Catchment Management & Paid Ecosystem Services Consultancy - Nakau	Implementation				1.34	0.00	0.50	GEF
Output 4 Total						1.34	0.00	0.50	
Solomon Water Funded Activities									
		Q1	Q2	Q3	Q4	Project Value (USD m)	Spend to end 2022 (USD m)	2023 Spend (USD m)	Source of funds
5.1	Contingency support to construction Projects	As required				6.50	0.00	TBD	SW
5.2	Support to Output 4 projects	In kind contribution to PMU management & operation				2.50	0.00	0.50	SW
SW Contribution Total						9.00	0.00	0.50	
WHOLE PROJECT						124.32	5.73	39.07	

Notes:

- 1 Includes 10% contingency
- 2 Requires further design. Implementation to be funded in part by Australia DFAT grant of AUD 10m (~USD 6.92m) outside of UWSSSP
- 3 Output 1.6, 1.7, 2.1, 2.2 & 2.3 - delayed by EU/ADB funding agreements not being reached until 28/04/23.

Annex 2: Consolidated PMU 2023 Work Plan

The following table lists all currently active PMU studies, designs, physical works projects and selected other activities, along with their funding source, dates and other parameters.

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Notes and Abbreviations Used in the Projects Table

Column Heading	Notes/Abbreviations
No.	Row number (varies depending on sort order)
Project No.	SW Project No, or Contract No.
Short Name	Max 16 Characters (may be used for timesheets and elsewhere)
Project Name	Full project title (as used by PMU)
Firm	The consulting or construction company contracted to do the work.
Type	W = Works; C = Consultancy; O = Other
Stage	P = Planned; O = Ongoing; H = On Hold; S = Substantial Completion/DLP Defects Liability Period; C = Completed
Project Manager	PMU's Project Manager
Program	U = UWSSSP; S = SWCWP Solomon Water Capital Works Program
Funder	SIG/SW; ADB; WB; EU; DFAT
Currency	Currency of contract eg. USD; SBD;AUD; NZD etc
Budget	Budget allocated (incl. contingency) in original currency
Expenditure to Date	
Start Date	
Original End Date	
Forecast End Date	
Comments	
Budget SBD	Budget converted to SBD
Expense SBD	Expenditure to date, converted to SBD.

Exchange Rates to USD (3/05/23)		
AUD	AUD 1.000 =	SBD 5.5151
EUR	EUR 1.000 =	SBD 9.1144
SBD	SBD 1.000 =	SBD 1.0000
USD	USD 1.000 =	SBD 8.2808

PMU Projects

No.	Project No.	Short Name	Project Name	Firm	Type	Stage	PM	Assist	Prog	Funder	Currency	Budget	Expenditure to Date	Start Date	End Date (Original)	End Date (Forecast)	Comments	Budget SBD	Expense SBD
1	FFENCE31F08	Lengakiki Resvr	Lengakiki Reservoir Fencing & Tank Removal	Prosol	W	C	AF	-	S	SW	SBD	SBD 1,364,995	1,409,495	12/08/22	12/08/22	12/08/22	DLP ends 12th August 2023.	SBD 1,364,995	SBD 1,409,495
2	S4OTFALX14	Outfalls HIR	Outfalls Project Naha, Kukum, Rove & TGA (Tropical Glass and Aluminium)	Multiple	W	H	AF	-	S	SW	SBD	SBD 2,800,000	1,863,627	1/01/22			Rove-Complete; Naha-Complete but damaged by ship on 1/03/23. Kukum & TGA on hold.	SBD 2,800,000	SBD 1,863,627
3	FFENCE31F12	Panatina BH1&2 Fence	Panatina BH1 & 2 and Reservoir Fencing	To go to tender	W	H	AF	-	S	SW	SBD	SBD 0						SBD 0	SBD 0
4	FFENCE31F09	Panatina Fencing	Panatina Catchment and BH3 & 4 Fencing	Civil Works	W	C	AF	-	S	SW	SBD	SBD 3,773,922	1,741,065	24/07/22	23/12/22	23/12/22	Completed	SBD 3,773,922	SBD 1,741,065
5	FFENCE31F10	Rove PS Fence	Rove Pump Station Fence	To go to tender	W	H	AF	-	S	SW	SBD	SBD 1,504,503		1/01/22	TBC	TBC	On Hold	SBD 1,504,503	SBD 0
6	FSURV21GPO5	Noahs Hill etc.	Survey Noahs Hill, Panatina, Tuvaruhu, Vura Creek PS, WR RTs	Azimuth and SSS	W	C	AF	-	S	SW	SBD	SBD 450,000	52,840	1/08/22	TBC	TBC		SBD 450,000	SBD 52,840
7	FSURV21GPO6	Survey 2022-24	Survey work 2022-2024	Spatial Solution	W	O	AF	-	S	SW	SBD	SBD 1,576,357	50,208	29/07/22				SBD 1,576,357	SBD 50,208
8	SWTF46	WASH Public Toilets	SW0552021 Design WASH Public Toilets/Amenity Block	ESW Architect	W	O	AF	-	U	DFAT	SBD	SBD 1,385,000		1/05/21	TBC	TBC		SBD 1,385,000	SBD 0
9	FTUVEP31	Tuvaruhu Fence Repairs	Tuvaruhu Erosion Protection and Fence Repair Works	SSS Ltd & Prosol	W	O	AF	Francis	S	SW	SBD	SBD 2,704,521	1,022,274	1/05/21	1/10/22	1/10/22		SBD 2,704,521	SBD 1,022,274
10	FFENCE31F11	Tuvaruhu Reservoir Fence	Tuvaruhu Reservoir Fence	To go to tender	W	H	AF	-	S	SW	SBD	SBD 0		TBC	TBC	TBC		SBD 0	SBD 0
11	FUXO3102	UXO Clearance 1	UXO Clearance 2022 & 2023	Solsearch	C	O	AF	-	S	SW	SBD	SBD 1,039,800		1/06/22	16/07/05	16/07/05		SBD 1,039,800	SBD 0
12	FUXO31UXO1	UXO Clearance 1	UXO Clearance for Various sites	Solsearch	C	C	AF	-	S	SW	SBD	SBD 155,657	314,453					SBD 155,657	SBD 314,453
13	FFENCE31F05	White R Fence	White River Reservoir Fencing & Retaining Wall	To go to tender	W	O	AF	Lisa	S	SW	SBD	SBD 2,840,198		TBC			On Hold	SBD 2,840,198	SBD 0
14	WWHRBHR41	WR BH 3&4	WR BH Recommissioning	Multiple	W	C	AF	-	S	SW	SBD	SBD 0	3,224,170	1/10/19	1/11/22	1/11/22		SBD 0	SBD 3,224,170
15	SOFNHX14	Outfalls HIR	Repair Damaged Outfall at Naha	Multiple	W	P	AF	Francis	S	SW	SBD	TBC		TBC	TBC	TBC	Naha sewer outfall was damaged by a ship (Vatud Star) that drifted ashore at the sewer line location 1/03/23.	SBD 0	SBD 0
16	WAUKWAT32	Auki Gallery WS	Auki Gallery Water Supply Scheme		W	O	AS	?	S	SW	SBD	SBD 0						SBD 0	SBD 0
17	FROSOFW31	Rove Source Fence	Fencing Work for Rove Ground Water Source		W	C	AS	-	S	SW	SBD	SBD 0						SBD 0	SBD 0
18	PWS-Gizo	Gizo PWS	Provincial Water Supply - Gizo [Bid docs] (See also 34)	TBC	W	O	AS	Lisa	O	DFAT	AUD	AUD 0	0				Work under design SUEZ	SBD 1	SBD 1
19	PWS-Munda	Munda PWS	Provincial Water Supply - Munda [Bid docs]	TBC	W	P	AS	Francis	U	ADB/WB/EU	USD	USD 0	0				Work under design SUEZ	SBD 1	SBD 1
20	PWS-Noro	Noro PWS	Provincial Water Supply - Noro [Bid docs]	TBC	W	O	AS	Xavie	U	ADB/WB/EU	USD	USD 0	0				Work under design SUEZ	SBD 1	SBD 1
21	PWS-Tulagi	Tulagi PWS	Provincial Water Supply - Tulagi	TBC	W	H	AS	-	U	ADB/WB/EU	USD	USD 0	0				Work under design SUEZ	SBD 1	SBD 1
22	WSCDADD21	SCADA	SCADA [Bid docs]			O	AS	Wilson	U	ADB/SW	USD	USD 0	70,250	1/04/22	1/12/22	1/12/22		SBD 1	SBD 581,723
23	SW0662021	HNWS Reservoir Rebid	HNWS Reservoir Rebid	PEP JV	W	O	AW	AF&Francis-Titinge AF&Xavie-Tasahe Wilson&Claudetta-Panatina	U	ADB/WB	USD	USD 7,105,695	9,061,535	3/05/22	4/11/23	4/11/23	Construction pending start in February. **Check Expenditure to date???	SBD 58,840,958	SBD 75,036,907
24	SW0192019	HNWS Trunk Mains	HNWS Trunk Mains	PEP	W	O	AW	Wilson-Design AF-Admin Claudetta-East Xavie-West Wilson	U	ADB/WB	USD	USD 7,786,883	0	16/06/22	18/12/23	18/12/23	Construction pending start in February	SBD 64,481,751	SBD 1
25	SW0222019	HIR WWS PS & Trunk Mains	HNWW S Pump Stations & Trunk Mains [Bid docs]		W	O	AW		U	ADB	SBD	SBD 0	0				Design Phase completed, Bid Docs need to be revised to allow for Merit Point Based (AF to assist).	SBD 0	SBD 0
26	FGIZODP31	Gizo Depot & House	GIZO DEPOT Fence & Staff Housing		W	O	BF	Xavie Claudetta	S	SW	SBD	SBD 1,128,270	31,556	1/03/22	TBC	TBC	Design Phase	SBD 1,128,270	SBD 31,556
27	WGIZOW36	Gizo PWS (DFAT)	Gizo Water Supply Improvement works (DFAT) (See also 22) Delete??	SA	W	O	BF	-	S	DFAT	SBD	SBD 1,394,330	852,099	8/07/22	13/10/22	13/10/22		SBD 1,394,330	SBD 852,099
28	WKWTPDD21	Kongulai WTS	Kongulai Water Treatment Plant	REAN	W	O	BF	Francis	U	ADB/WB/EU/GEF	USD	USD 15,646,656	625,890	5/05/22	29/06/23	29/06/23		SBD 129,567,090	SBD 5,182,884
29	FKONSH31	Kongulai WTP House	KONGULAI WTP Staff Housing		W	D	BF	-	S	SW	SBD	SBD 0	0	TBC	TBC	TBC	On Hold	SBD 0	SBD 0
30	FNOROSH31	Noro House	Noro Staff Housing	KC Construction	W	D	BF	Lisa	S	SW	SBD	SBD 3,891,121	2,908,818	11/04/22	11/02/23	11/02/23	Completed 16/12/22	SBD 3,891,121	SBD 2,908,818
31	WNOROW36	Noro WASH	Noro WASH Improvement Works (DFAT)	Excel	W	O	BF	-	S	DFAT	SBD	SBD 1,039,830	280,188	19/08/22	21/11/22	21/11/22		SBD 1,039,830	SBD 280,188
32	SRCCC36	Rove Prison WS	Rove Central Correctional Centre Water Upgrade			O	BF	Benjamin	S	DFAT	SBD	SBD 830,660	0	1/05/22	TBC	TBC		SBD 830,660	SBD 0
33	SW0622021	Fisheries-Telekom	Sewer Works - Fisheries to Telekom Roundabout	McConnell Dowell	W	C	BF	Joash	S	SIG	SBD	SBD 79,747,858	-	7/12/22	7/12/23	7/12/23	Construction Phase	SBD 79,747,858	SBD 0
34	SSINUD38	SINU Dorms Sewers1	Sewer Works - SINU Dorms	Azimuth Surveys, Mauritewa, NRW Cons, Land Purchases	W	O	BF	Xavie	S	SIG	SBD	SBD 1,215,373	661,640	TBC	TBC	TBC	Consultancy Phase Completed	SBD 1,215,373	SBD 661,640
35	SKGELA138	KGVI-Ranadi Sewer	Sewer works-KGVI/Ranadi Road	Hatanga Ltd	W	C	BF	-	S	SIG	SBD	SBD 11,539,312	10,653,076	16/05/22	16/11/22	30/11/22	Completed 30/11/22	SBD 11,539,312	SBD 10,653,076
36	SW0202022	SINU Dorms Sewers1	SINU Dormitories Sewer Construction Project	Hatanga Ltd	W	C	BF	Xavie	S	SIG	SBD	SBD 5,202,781	-	20/01/23	31/07/23	31/07/23	Construction Phase	SBD 5,202,781	SBD 0
37	FSTUVWH31	Tuvaruhu Racks	Storing Racks for Tuvaruhu Warehouse.	Kramer & ?	W	D	BF	Nelson	S	SW	SBD	SBD 1,447,390	1,362,169	2/09/22	2/09/23	2/09/23	Completed	SBD 1,447,390	SBD 1,362,169
38	FTULTCS31	Tulagi Chlorine Stn	Tulagi Chlorine Station	Kapah	W	O	BF	?	S	SW	SBD	SBD 0						SBD 0	SBD 0

PMU Projects

No.	Project No.	Short Name	Project Name	Firm	Type	Stage	PM	Assist	Prog	Funder	Currency	Budget	Expenditure to Date	Start Date	End Date (Original)	End Date (Forecast)	Comments	Budget SBD	Expense SBD
39	Catchment Mgmt	Catchment Mgmt	Catchment Management Plans x2-Bernard's ToR		C	O	BM	Robert	U	ADB	USD	USD 0						SBD 1	SBD 0
40	GHA Governance	GHA Governance	GHA Catchment Governance Arrangements-Bernard's ToR		C	O	BM	Robert	U	ADB	USD	USD 0						SBD 1	SBD 0
41	Maps/ models	UQ Hyd Monitoring	Hydrological Monitoring UofQ	UQ Hydrology	C	O	BM	Robert	U	GEF 7	AUD	AUD 310,000	127,125	22/09/21	21/03/23	21/03/23	needs to be extended due to Corona delays	SBD 1,709,687	SBD 701,110
42	Community Livelihoods	L&L PES	Live and Learn Income Generation	Live & Learn Income Gen.	C	O	BM	Robert	U	ADB	USD	USD 161,000		1/12/21	30/11/22	30/11/22		SBD 1,333,211	SBD 0
43	SW0212022	Nakau PES	Nakau PES component	Nakau	C	O	BM	Xavie Robert	U	ADB	USD	USD 983,006		1/12/21	30/11/22	30/11/22	Plan vivo validation to be added after month 12	SBD 8,140,093	SBD 0
44	IKI 2022 TOPIC 7	IKI	Protection of Water supply in Pacific Islands	TBA	C	P	BM	-	O	IKI Germany	EUR	EUR 7,000,000		1/09/23	31/07/26	31/07/26	under application duration 6 to 8 years	SBD 63,800,785	SBD 0
45	WAUKIW36	Auki WASH	Auki WASH Improvement Works (DFAT)		C	O	Don	-	S	DFAT	SBD	SBD 630,000	9,449	TBC	TBC	TBC		SBD 630,000	SBD 9,449
46	WTULAW36	Tulagi WASH	Tulagi WASH Improvement Works (DFAT)	CES Allied	W	O	Don	-	S	DFAT	SBD	SBD 916,586	462,493	1/09/22	29/11/22	29/11/22		SBD 916,586	SBD 462,493
47	BinaHarb	BinaHarb	Bina Harbour Feasibility Study	SMEC	C	O	JH	Claudetta	U	ADB	USD	USD 0						SBD 1	SBD 0
48	Plan	Hygiene Promotion Pkg 2	Package 2 Hygiene Promotion	Plan	C	O	JH	-	U	ADB	SBD	SBD 0						SBD 0	SBD 0
49	SIWA Regs	SIWA Regs	SIWA Regulations Update	In House	C	P	JH	Sirepu Claudetta	S	SW	SBD	0							
50	SUEZ	UWSSSP Ph2-Suez	UWSSSP-Detailed Engineering Design Phase 1	SAFEGE-Suez	C	O	JH	Claudetta	U	ADB	SBD	SBD 0						SBD 0	SBD 0
51	SMEC	UWSSSP Ph1-SMEC	UWSSSP-Detailed Engineering Design Phase 2	SMEC	C	O	JH	Joash Claudetta	U	ADB	SBD	SBD 0						SBD 0	SBD 0
52	FENCE31F07	Auki WS Fence	Auki BH1 and Container Compound Fence	James Engineering	W	C	NO	-	S	SW	SBD	SBD 641,893	700,550	11/10/21	30/12/21	N/A	DLP ends on 30 December 2022.	SBD 641,893	SBD 700,550
53	FFENCE3112	Auki Catchmt Fence	Auki Water Catchment Fence	TBC	W	H	NO	-	S	SW	SBD	SBD 0	0	TBC	TBC	TBC	On hold pending land issues and availability of funds. No CPAF in place yet for project funding approval.	SBD 0	SBD 0
54	WKWABWF31	Kwaibala Weir	Kwaibala Weir & Fence	Alrico Construction	W	D	NO	Nelson	S	SW/DFAT	SBD	SBD 4,186,427	3,446,689	25/03/22	28/11/22	N/A	DLP ends on 30 November 2023.	SBD 4,186,427	SBD 3,446,689
55	WPABH31	Panatina BH3&4	Panatina Boreholes 3 & 4 Construction	Pacific Strata Drilling and Water Management Services	W	O	NO	Nelson Lisa	S	SW/DFAT	SBD	SBD 3,300,000	3,322,171	1/01/22	14/02/23	31/03/23	Request submitted for budget increase to \$5.1m to cater for all other outstanding works. 6 other consultancy and supplier contracts included in the expenditure.	SBD 3,300,000	SBD 3,322,171
56	WTANKERR31	Tank Relining	Replacing and relining of steel Tank	Reeves Envico	W	O	NO	Nelson	S	SW	SBD	SBD 11,714,321	816,116	9/11/21	27/07/23	27/07/23	Budget and expenditure covers consultancy works as well. Major works on Site is expected to commence by February/March 2023.	SBD 11,714,321	SBD 816,116
57	FFENCE31F04	Rove Cwy Fence	Rove Causeway (Fence and Installation)	SI Steel and Welding Works	W	C	NO	-	S	SW	SBD	SBD 41,580	14,346	30/07/21	21/02/22	21/02/22	Initial contract with Kapah Building Services terminated and SISWW engaged to complete the project.	SBD 41,580	SBD 14,346
58	WRGROWS31	Rove Source Rehab	Rove Source Rehab	Hatanga	W	D	NO	Nelson	S	SW/DFAT	SBD	SBD 3,908,646	3,645,809	31/01/22	30/09/22	N/A	DLP ends on 30 September 2023.	SBD 3,908,646	SBD 3,645,809

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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UWSSSP Financial Summary to 31/03/23

Solomon Water

Urban Water Supply and Sanitation Sector Project

Financial Summary for the Period Ending 31/03/2023

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB-Grant0801-SOL	ADB-Grant0801-SOL	ADB Grant	ADB Grants
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)
Start Date		25/01/2019	25/09/2019	25/09/2019		25/09/2019	25/09/2019	25/09/2019	25/09/2019	25/09/2019	25/09/2019	25/09/2019	25/09/2019	3/02/2022	3/02/2022		
End Date		31/12/2020	30/06/2027	30/06/2027		30/06/2027	30/06/2027	30/06/2027	30/06/2027	30/06/2027	30/06/2027	30/06/2027	30/06/2027	30/06/2027	30/06/2027		
Total Fund Allocations (USD)		3,000,000.00	7,562,872.26		1,437,127.74	9,000,000.00	28,000,000.00	14,387,000.00	613,000.00	15,000,000.00	20,347,000.00	9,000,000.00	12,128,000.00	4,587,000.00		4,587,000.00	
Current Status of Funding/Project		Closed	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Not yet effective	Ongoing	Ongoing	Ongoing	Ongoing	new	
Total Funds Consumed at Reporting Date		2,110,101.92	4,465,382.75	284,529.61	1,301,586.71	6,051,406.36	6,948,301.78	1,731,042.68	608,960.67	2,340,003.35	-	4,692,449.49	688,293.61	371,132.26	91,936.98	463,069.24	376,466.59
Balance Remaining at Reporting Date		889,898.08	3,097,489.51	-	284,529.61	135,541.03	2,948,593.64	21,051,698.22	12,655,957.32	162,548.00	12,818,505.32	-	4,307,550.51	3,720,706.39	4,215,867.74	-	91,936.98
Balance at Reporting Date in SBD - Converted at SIG agreed Rate of 8.2102		7,306,241.22	25,431,008.38	-	2,336,044.98	1,112,818.93	24,208,543.49	172,838,652.73	103,907,940.81	1,334,551.60	105,242,492.41	-	35,365,851.22	30,547,743.64	-	754,821.03	

SW SIG Interest Expense Based on ADB and IDA - SIG Concessional Loan (in SBD)

Fund Allocation by Objectives of Specific Donors and Agreed Project Terms and Conditions

ADB Grant Number 6014-SOL(SF) - Project Objectives

- Undertaking surveys required for detailed engineering design of selected high priority sub projects
- Preparation of detailed engineering design and bidding documents for selected high priority subprojects
- Support Solomon Water for procurement, including bid evaluation and preparation of bid evaluation reports and contract award
- Support Solomon Water for project management, including preparation and implementation of safeguard plans and engagement with urban communities in the Solomon Islands on project related matters

Detailed Engineering Design	1,704,898.00
Standard Operating Procedures Consultant	20,769.17
Strategic Projects Management Advisor	189,020.44
International WASH Specialist	50,813.60
Communications Specialist	52,649.24
International Environmental Specialist	91,951.47
Total Funds Consumed	2,110,101.92
Balance at Reporting Date	889,898.08

ADB Grant Number 0662-SOL (SF) & ADB Credit Number 3826-SOL (COL) - Project Objectives

Part I - Urban Water Supply (Budget)				1,694,000.00	23,593,000.00
(i) Upgrade Kongulai water treatment Plant	Detailed Engineering Design Phase 2 Construction	865,530.00	-	-	865,530.00
		16,110.14	-	-	16,110.14
(ii) Water Trunk Mains (Mataniko & White River)	UWSSSP - 7b Package 2 Plan International	472,749.23	-	-	472,749.23
	Honiara Water Supply Trunk Main - Construction	-	-	-	1,356,569.26
(iii) Build two New Reservoirs (12ML)	Honiara Water Reservoir storage Project	113,338.76	240,192.75	-	353,531.51
					1,329,550.88
Subprojects					
(i) leak detection and repair including rehabilitation of 10KM water pipes, expansion 70KM new water pipes in GHA					
(ii) upgrade water system in Auki, Noro and Tulagi	Auki Water Treatment Plant	130,878.65	-	-	130,878.65
					1,807,484.31
(iii) building new water systems in Gizo and Munda					
(iv) building new metered connections to the households. Prepayment water meters installation on new and existing connections	Cash Water Meters	90,890.39	227.26	-	91,117.65
					1,256,981.52
Total Funds Consumed		1,689,497.17	240,420.02	-	1,929,917.19
Balance at Reporting Date		-	-	-	17,575,977.01

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB-Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)
Part 2 - Urban Sanitation																	
(i) rehabilitate and upgrade three ocean outfalls and build a new ocean outfall																	
	Ranadi Rd to Goodwood PS		-	-	-	3,366,000.00	-	749,538.59									
(ii) build six new sewage pump stations and rehabilitate both King George VI and Point Cruz sewage pump stations																	
			-	-	-												
(iii) build new septage treatment facility																	
			-	-	-												
(iv) expand sewer systems by 7KM to connect 3000 new households																	
			-	-	-												
	Total Funds Consumed		-	-	-			749,538.59									
	Balance at Reporting Date					3,366,000.00		749,538.59									
Part 3 - Water conservation, sanitation, and hygiene awareness and education																	
Community awareness on water conservation, environment protection and hygiene practices including informal settlements																	
	Galaxy Tab A8 - WASH Survey		3,828.53	879.48	-	4,708.01											
	WASH baseline Suvery		70,099.13	5,593.95	-	75,693.08											
	UWSSSP- RTA Survey for Sanitation and Desludging Practices in GHA		41,456.35	-	-	41,456.35											
			-	-	-												
	Total Funds Consumed		115,384.01	6,473.43	-	121,857.44											
	Balance at Reporting Date					121,857.44		749,538.59									
Part 4 - Institutional strengthening and Project management																	
(i) prepare and implement financial management policies including tariff management framework and tariff review																	
	Pronot Xi Software		23,080.04	880.45	-	23,960.49											
(ii) design and implement capacity building programs for SIWA staff including the technical training and on-the job training																	
	Software fees		540,831.76	5,153.18	169,020.93	715,005.87											
(iii) design and implement preventative maintenance programs and asset management																	
	ERP Selection & Implementation		8,325.18	-	-	8,325.18											
(iv) expand SIWA's telemetry system																	
			-	-	-												
(v) introduce and implement SIWA personnel incentive schemes																	
			-	-	-												
	Total Funds Consumed		572,236.98	6,033.64	169,020.93	747,291.55											
	Balance at Reporting Date					747,291.55											
Consultancy Services																	
	Monitoring and Evaluation Specialist		61,953.24	1,004.75	28,744.32	91,702.31											
	Head of PMU (UWSSSP)		457,960.76	8,187.67	251,112.85	717,261.27											
	Social Safeguards and Gender Specialist		61,329.32	435.85	24,732.40	86,497.57											
	WASH Specialist		98,280.93	1,601.22	75,417.10	175,299.25											
	International Environment Specialist		118,275.23	1,808.52	72,589.60	192,673.35											
	Communications Specialist		48,308.40	1,457.86	-	49,766.26											
	Honiara Hydraulic Network Model Update & Calibration		324,606.44	4,679.15	59,522.73	388,808.32											
	Project Management Specialist - Water and Waste Water		409,121.94	6,302.88	249,161.65	664,586.47											
	ERP Selection and Implementation		19,331.55	555.00	-	19,886.55											
	UWSSSP Project Manager		320,062.46	3,530.61	240,373.32	563,966.39											
	Catchment Magement Specialist		-	-	-	-											
	Fecal Sludge Management Specialist		92,180.00	1,010.40	94,868.60	188,059.00											
	Strategic Project Management Advisor		68,837.24	1,028.61	35,358.40	105,224.25											
	International Catchment Management Specialist		-	-	-	-											
	Watershed Mapping and Hydrological Modeling		-	-	-	-											
			-	-	-	-											
			-	-	-	-											
	Total Funds Consumed		2,080,247.51	31,602.53	1,131,880.96	3,243,731.00										91,936.98	
	Balance at Reporting Date					419,269.00										91,936.98	

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB-Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)
Interest Charge																	
	TT Fee - Nov 21				65.93	65.93											
	TT Fee - Dec 21				65.56	65.56											
	TT Fee - Feb 22				58.32	58.32											
	TT Fee - Mar 22				73.50	73.50											
	TT Fee - Apr 22				73.42	73.42											
	TT Fee - May 22				14.52	14.52											
	TT Fee - Jun 22				57.96	57.96											
	TT Fee - August 22				7.14	7.14											
	TT Fee - Oct 22				57.60	57.60											
	TT Fee - Nov 22				43.02	43.02											
	TT Fee - Dec 22				75.14	75.14											
	Capitalised Interest									68,737.12							
	TT Fee - Jan 23				28.50												
	TT Fee - Feb 23				42.95												
	TT Fee - Mar 23				21.26												
	Total Funds Consumed				684.82	592.11		68,737.12									
	Balance at Reporting Date					592.11		541,262.88									
Unallocated																	
						277,000.00		3,797,000.00									
Contribution to IDA objective - Carrying out Non-Revenue Water reduction activities including leak detection and network repairs.	Wheeled Excavator		3,778.80			3,778.80		53,218.10									
	Toyota Hilux-NRW		2,263.15			2,263.15		31,872.68									
	Toyota Hilux-PMU		1,975.13			1,975.13		27,912.30									
	Total Funds Consumed		8,017.08			8,017.08		113,003.08									
	Balance at Reporting Date					268,982.92		3,683,996.92									
IDA Credit Number 6407-SB - Project Objectives																	
Part 1 - Urban Water Supply																	
								10,387,000.00		613,000.00		11,000,000.00					
Ia Construction, rehabilitation, upgrade and expansion of water production and treatment systems in all urban areas except Munda.	Auki Water Treatment Plant							542,429.15		275,466.95		817,896.10					
Ib Construction, rehabilitation, upgrade and expansion of water production and treatment systems in Munda																	
Ic Installation of additional water storage capacity within SW distribution network in Honiara.	Honiara Water Reservoir storage Project							625,593.95				625,593.95					
Id Installation of additional water storage capacity within SW distribution network outside Honiara.																	
Ie Rehabilitation, upgrade and expansion of water supply transmission and distribution system.	Kongulai Water Treatment Plant - Construction							104,096.32				104,096.32					
If Carrying out Non-Revenue Water reduction activities including leak detection and network repairs.	Cash Water Meters							419,809.68		160,112.17		579,921.85					
	Wheeled Excavator							24,462.70				24,462.70					
	Toyota Hilux-NRW							14,650.88				14,650.88					
	Toyota Hilux-PMU									12,547.81		12,547.81					
	Total Funds Consumed							1,731,042.68		448,126.93		2,179,169.61					
	Balance at Reporting Date							8,655,957.32		164,873.07		8,820,830.39					
Part 2 - Urban Sanitation																	
								2,310,000.00				2,310,000.00					
2.a Design, construction, operation and maintenance of a septage treatment facility.																	
2.b Improvement of the septage management institutional and regulatory framework.																	
2.c Rehabilitation and upgrade of sewerage systems, including sewer mains, pumping stations and submarine outfalls.																	
	Total Funds Consumed																
	Balance at Reporting Date							2,310,000.00				2,310,000.00					

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB-Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)	
Part 3 - Water conservation, sanitation, and hygiene awareness and education																		
Part 4 - Institutional strengthening and Project management																		
UNALLOCATED																		
Total Funds Consumed																		
Balance at Reporting Date																		

Interest Earned on IDA Imprest Account-SW Liability																	
FX Difference for 5m SBD in Imprest Account																	
August 2020																	
September 2020																	
October 2020																	
November 2020																	
December 2020																	
January 2021																	
February 2021																	
March 2021																	
April 2021																	
May 2021																	
June 2021 - Audit Certificate Fee																	
June 2021																	
July 2021																	
August 2021																	
September 2021																	
October 2021																	
November 2021																	
December 2021																	
January 2022																	
February 2022																	
March 2022																	
April 2022																	
May 2022																	
June 2022																	
June 2022 - Audit Certificate Fee																	
July 2022																	
August 2022																	
September 2022																	
September 2022- Exchange rate difference on Local SBD Account																	
October 2022 Interest																	
November 2022 Interest																	
December 2022 Interest																	
January 2023 Interest																	
February 2023 Interest																	
March 2023 Interest																	
Total Interest Earned																	

Refund of IDA Imprest Account																	
Funds returned to WB																	
Total Refund to WB																	

Solomon Water - In Kind Contribution - Project Objectives																	
ADB Output 4: Solomon Islands Water Authority is financially and technically sustainable.																	
Design & Supervision																	
Contingencies-Physical & Price																	
Physical contingencies computed at 10.0%																	

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB- Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)
Price contingencies computed at average of 1.6% on foreign exchange costs and 2.5% on local currency costs; includes provision for potential exchange rate fluctuation under the assumption of a purchasing power parity exchange rate.												192,752.02					
Consultancy												63,220.69					
Solomon Water UWSSSP Contribution (Refer to In-Kind Summary sheet)												-					
Total in-kind contribution												4,692,449.49					
Balance at Reporting Date												-					

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB-Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)	

Solomon Islands Government - Tax & Duty Exemption

Output 1: Urban water supplies are continuous and safe.

Selected subprojects in this output are located in GHA and will:

(i) expand the surface water intake with additional 5 MLD, upgrade water treatment plant capacity in Kongulai (15 MLD),

(ii) build new 11 km treated water trunk mains in Mataniko and White River areas,

(iii) build two new reservoirs (12ML).

Additional subprojects include:

(i) leak detection and repair including rehabilitation of 10km water pipes, expansion 70km new water pipes in GHA,

(iii) building new water systems in Gizo and Munda; and
 SIG Exemption Order No. 0158/19 - 5/09/2019-28/02/2020 - Auki Water Supply Upgrade Materials / Equipment - Goods Tax (Extended to 30/8/2020)

SIG Exemption Order No. 0158/19 - 5/09/2019-28/02/2020 - Auki Water Supply Upgrade Materials / Equipment - Duty Exemption (Extended to 30/8/2020)

(iv) building new metered connections to the households. Prepayment water meters will be installed on the new and the existing connections.
 SIG Exemption Order No. 0169/20 - 19/6/2020-30/4/2021 - Pipes and fittings, Chlorine, Bore/Industrial Water Pumps & Cash/Conventional Water Meters for the ongoing UWSSSP Capex plan 2020 - Goods Tax

176,217.27

-

170,782.90

-

341,293.43

-

-

-

-

Total Funds Consumed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	688,293.61
Balance at Reporting Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	688,293.61

Output 2: Urban sanitation services are effective, efficient, and safe in GHA

2,744,000.00

Selected subprojects in this output will:

(i) rehabilitate and upgrade three ocean outfalls and build a new ocean outfall,

(v) build six new sewage pump stations and rehabilitate both King George VI and Point Cruz sewage pump stations, and

(vi) build new septage treatment facility (60 m3/day).

The additional subproject will expand sewer systems by 7km to connect 3000 new households.

Total Funds Consumed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance at Reporting Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,744,000.00

Output 3: Enhanced and sustained awareness and behavior of hygiene and water conservation in GHA and five towns.

360,000.00

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB- Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)

The subproject in this output is selected. It will design and deliver a gender-sensitive education program to raise community awareness about water conservation, environmental protection, and hygiene practices including informal settlements (at least 50% are women). The costs of delivering water supply and sanitation services and the need for water and sanitation tariffs will be highlighted. Menstrual hygiene management training and products would be provided to women and girls.

Total Funds Consumed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance at Reporting Date																	360,000.00

UWSSSP Financial Summary to 31/03/23

Source of Funds	Specific Activities to meet Project Objectives	Project Readiness Financing	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	Urban Water Supply and Sanitation Sector Project	ADB- Grant0801-SOL	ADB-Grant0801-SOL		ADB GRANTS
		ADB Grant Number 6014-SOL(SF)	ADB Grant Number 0662-SOL (SF)-Direct Payments	ADB Grant Number 0662-SOL (SF)- Payments Made or Accrued by SW and Pending Reimb.	ADB Grant No. 0662-SOL (SF)- Payments Made fr ADB USD Local Advance Account Pending Replenishment	ADB Grant Number 0662-SOL (SF)- Total	ADB Credit Number 3826-SOL (COL)	IDA Credit Number 6407-SB-Direct	IDA Credit Number 6407-SB-Imprest	IDA Credit Number 6407-SB-Total	EU Grant Number 0663-SOL (EF)	Solomon Water - In Kind Contribution	Solomon Islands Government - Tax & Duty Exemption	SOL - Direct Payments	ADB-Grant0801-SOL Pending Reimbursements	ADB Grant Number 0801-SOL (SF)- Total	ADB Grant Total Claims (A+B)

Output 4: Solomon Islands Water Authority is financially and technically sustainable. 495,000.00

The subprojects in this output are selected.

(i) prepare and implement financial management policies including tariff management framework and tariff review process, among others;

(ii) design and implement capacity building programs for SIWA staff including the technical training and on-the-job training;

(iii) design and implement preventative maintenance programs and asset management;

(iv) expand SIWA's telemetry system; and

(v) introduce and implement SIWA personnel incentive schemes. Since SIWA is responsible for all urban water supply and sewage service, Output 4 will support SIWA to continue the recovery of its annual operations and maintenance costs, asset depreciation costs, and debt servicing costs.

Total Funds Consumed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance at Reporting Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	495,000.00

Design & Supervision 810,000.00

Total Funds Consumed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Balance at Reporting Date	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	810,000.00

ADB- Grant0801-SOL

International Catchment Management Specialist	197,244.20
Watershed Mapping and Hydrological Modeling	-
Upgrade Kongulai water treatment Plant	26,437.16
International Catchment Management Specialist_NAKAU	147,450.90
	-

Annex 4: SW UWSSSP Cost Estimate (as of 3rd February 2023)

Note: Revised cost estimate EXCLUDES taxes and duties and land acquisition costs. **Source:** Asian Development Bank

Output	Description	Current Cost Estimate (USD)	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	8,900,000	October 2022 estimate by SMEC covering 10km of watermain (250mm ID - 450mm ID) replacements on trunk main with excessive leakage and beyond economic repair.
1	Gizo water supply scheme upgrade	11,659,091	SAFEGE October 2021 estimate. Does NOT include contingencies. 1 Apr 2022 - Cost ESCALATED BY 88% to account cost escalation arising from for COVID-19 impacts and international inflation.

Output	Description	Current Cost Estimate (USD)	Notes
1	Noro Water Supply Scheme	3,784,091	SAFEGE October 2021 estimate. Does NOT include contingencies. 13 Oct 2022 - Cost ESCALATED BY 88% to account for COVID-19 and geo-political impacts.
1	Tulagi Water Supply Scheme	5,388,068	SAFEGE October 2021 estimate. Does NOT include contingencies. 13 Oct 2022 - Cost escalated by 88% to account cost escalation arising from for COVID-19 impacts and international inflation.
1	Munda Water Supply Scheme	6,480,682	SAFEGE July 2020 estimate. 1 Apr 2022 - 13 Oct 2022 - Cost escalated by 88% to account cost escalation arising from for COVID-19 impacts and international inflation.
1	Auki Water Supply Scheme	3,034,764	Contract price, including variations, at 4 September 2020 (A\$3,948,431.78) based on USD-AUD ROE (0.768599261) on 8 March 2021. Contract closed.
1	Water Supply Network Modelling	347,500	Actual Contract - SAEGE
5	Watershed Protection	3,327,156	Based on cost estimates prepared during the preparation of UWSSSP-AF.
2	Reconfiguration of the Honiara sewerage system - NRH.	19,759,091	SAFEGE July 2020 estimate. 4 March 2021 - Scope of works to the proposed Ranadi outfall to be minimized to service SPG facilities only. Contingency removed. 13 Oct 2022 - Cost escalated by 125% to account cost escalation arising from for COVID-19 impacts and international inflation.
2	Sewer Works Ranadi Road to Goodwood Outfall	6,044,067	Actual contract price (PEP).
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.

Output	Description	Current Cost Estimate (USD)	Notes
2	Sewerage rehabilitation and expansion	3,400,000	October 2022 estimate by SMEC covering 7km of sewer replacements which will enable expansion of customer connections.
2	Septage Treatment Plant	2,564,238	Egis Eau December 2018 Feasibility Study cost estimate. Capital cost of US\$1,819,978 and 5 years of operations at \$148,852. Postpone until on-site sanitation masterplan and strategy completed.
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 ADB	106,159	Contracts awarded to Plan International Australia (\$807979.86) for the Hygiene Promotion Program, SIU for household survey (\$82,032), and Blu Distributors for survey tablets (\$3,829) - see line items below. Balance of provision shown in current estimate.
3	Hygiene awareness program EU	1,000,000	Budgetary provision.
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	576,891	Contract awarded to Pronto Software. Includes variations to 11 April 2022 (total A\$773,520).
4	Data management - SCADA	1,040,000	Estimate based on design report prepared by Neo Consulting in April 2020.
4	PMU Head (D. Boggs)	84,073	Actual Contract cost at end of services.
4	PMU Head (R. Farrell)	507,092	Actual Contract - Richard Farrell as varied for COVID19.

Output	Description	Current Cost Estimate (USD)	Notes
4	Project Management Specialist	749,400	Actual Contract - Adam Searancke as varied for COVID19 and extended to 30 August 2023.
4	PMU Contracts Engineer/ Manager	756,200	Actual Contract - Adam Winter as varied for COVID19 and extended to 2 December 2023.
4	PMU Environmental Specialist	218,700	Actual Contract - Tim Wrigley
4	Social Safeguards Specialist	233,280	Actual Contract - Wendy Lee
4	WASH Specialist	233,280	Actual Contract - Ken Marshall
4	Communications Specialist	48,308	Actual Contract - Suzanne Taylor
4	Project monitoring and evaluation	218,700	Actual Contract - Priya Chattier
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.
1	Vehicles (pick-up trucks for works supervision)	31,901	Actual cost - Ela Motors
1	Wheeled Excavator	53,218	Actual cost - United Auto
4	Vehicles (pick-up trucks for PMU)	27,161	Actual cost - Ela Motors

Output	Description	Current Cost Estimate (USD)	Notes
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
	TOTAL	145,827,662	

