

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)



Audit Number: AO-000831

### SITE DETAILS

Site: **BAT Solomon Islands (Solomon Islands Tobacco Company)**  
Address: Ranadi Industrial Area, 00677, Honiara, SOLOMON ISLANDS  
Contact Person: Audrina Aruafu  
AWS Reference Number: AWS-000500  
Site Structure: Single Site

### CERTIFICATION DETAILS

Certification status: Certified Core  
Date of certification decision: 2023-Dec-22  
Validity of certificate: 2026-Dec-22

### AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)  
Audit Type(s): Initial Audit  
Audit Start Date: 2023-Oct-18  
Lead Auditor: Elizabeth Villezar

#### Site Participants:

Margaret Eleanor Aitorea, Head of Corporate Affairs & Sustainability  
ERNEST SIOTA, Sustainability Manager  
Nyashaa Masolo, Employee  
Mark Wachira, Operations manager

Audit Number: AO-000831

ADDITIONAL INFO

Summary of Audit Findings: A total of 34 findings were raised during the certification audit, 21 minor non-conformities and 13 observations.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 60 days of receipt of the audit report by 27/01/2024.

Minor non-conformities must be closed out by the time of the next annual audit.

The audit team recommends certification of BAT - Solomon Islands Tobacco Company - SITCO at Core level pending approval of the corrective actions plan.

Scope of Assessment: The scope of services covers the Initial certification audit for assessing the conformity of BAT Solomon Islands (Solomon Islands Tobacco Company) against the AWS International Water Stewardship Standard Version 2.

BAT Solomon Islands (Solomon Islands Tobacco Company - SITCO) is located within Ranadi Industrial area east of the capital of Solomon Islands, Honiara. Its lot area is 0.92ha along Kukum Highway next to Ranadi Shoreline. The BAT Solomon Islands (SITCO) has almost dry processes as only packing of tobacco leaves is done here using cigarette paper with glue and plastic pouches. The only water usage evident was the washing of gum pots and personnel after work or during work. The products are distributed within the Islands among the locals only. However, all raw materials are imported from other countries (from other BAT factories). It was also known during the audit that BAT SITCO is one of the companies (if not the number one) that pays big taxes to the Government of Solomon Islands.

There are two sources of water within the plant, one from the Solomon Islands Water Authority and from the rainwater collected in several tanks during the wet season, and the site's ultimate discharge point of its treated wastewater & storm drain is the Ranadi shorefront.

The audit was conducted onsite on 18-20 October 2023 and faced with challenges but was able to overcome those challenges with the full support and cooperation of the BAT SITCO Team. The onsite site visit included the assessment of the water infrastructure of the site and the packing of tobacco leaves activities that were visited onsite as part of the audit.

The following external stakeholders were interviewed during the audit: Earthmovers Group of Companies/ Mr. Austin Leslie Holmes (General Manager); Mr. Lloyd Teasanau (Coordinator); the Solomon Islands Water Authority Ms. Susan Makabo (Team Leader for Water Quality)

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Table with 2 columns: Observation (13), Minor (21)

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### FINDING DETAILS

Finding No:	TNR-007017
Checklist Item No:	1.2.1
Status:	Open
Finding level:	Observation
Due date:	2024-Oct-20
Checklist item:	<p>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</p> <ul style="list-style-type: none"><li>- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;</li><li>- Consider the physical scope identified, including stakeholders, representative of the site’s ultimate water source and ultimate receiving water body or bodies;</li><li>- Provide evidence of stakeholder consultation on water-related interests and challenges;</li><li>- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;</li><li>- Identify the degree of stakeholder engagement based on their level of interest and influence.</li></ul>
Findings:	<p>Stakeholders mapping was available for the site, this can be improved by deleting/ removing another company name (i.e., Nestle).</p>
Corrective action:	<p>Remove nestle from the stakeholder mapping and checking that all information of stakeholders mapping are correct and valid. moving forward, ensuring that all information documented are correct and valid before submissions are done.</p>

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Audit Number: AO-000831

Finding No:	TNR-007018
Checklist Item No:	1.2.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	<p>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</p> <ul style="list-style-type: none"><li>- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;</li><li>- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;</li><li>- Provide evidence of stakeholder consultation on water-related interests and challenges;</li><li>- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;</li><li>- Identify the degree of stakeholder engagement based on their level of interest and influence.</li></ul>
Findings:	<p>In Stakeholders mapping, other BAT factories/ sites (relevant stakeholders) providing primary inputs to SITCO were not identified in the business category, hence no water-related challenges were identified with them.</p>
Corrective action:	<p>This list of stakeholders in stakeholder mapping document to be updated to include Lungga Farm, Express Freight Management and BAT Indonesia in the business category. The water-related challenges associated with these stakeholders are to be identified and included in the listing.</p> <p>From the corrective action above. Hold a stakeholder engagement with relevant stakeholders providing primary inputs to SITCO and to identify water related challenges of stakeholders through gap analysis and best practice sharing.</p>

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## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

Finding No: TNR-007021  
Checklist Item No: 1.2.2  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2024-Oct-20  
Checklist item: Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.  
Findings: The current and potential degree of influence between the site and its relevant stakeholders (supply chain) were not described as these stakeholders were not previously identified.  
Corrective action: For this indicator, upon updating the stakeholder mapping document to include missing stakeholders, the associated details relating to current and potential degree of influence is also to be described and inputted. A thorough review of the list of stakeholders to be carried out with all parties responsible (supply chain) to be done to avoid the omission of key stakeholders in future mapping.

Going forward, this would be carefully assessed before finalizing documents to avoid any confusions and sufficient document uploads to responsible parties. Through analysis of supply chain and degree of influence of each to be noted after consultation.

Finding No: TNR-007176  
Checklist Item No: 1.3.3  
Status: Open  
Finding level: Observation  
Due date: 2024-Oct-20  
Checklist item: Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.  
Findings: The volume of water losses measured as 100.1 cubic meters can be reviewed for further actions ensuring that underground leaks are detected and repaired/ replaced accordingly.  
Corrective action: WASH and piping works have been refurbished ensuring that there are no further leaks detected. Works are still in progress to be completed. Daily tracker of water utility will be closely updated and monitored. A way forward to make sure that this does not happen again is to ensure that underground leaks are detected and repaired/ replaced accordingly.

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## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

Finding No:	TNR-007182
Checklist Item No:	1.3.4
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.
Findings:	The quality of water from the source is tested by the SIWA including the quality of effluent from the wastewater treatment plan of the site. However, it was noted that the effluent coming from the storm drain is not tested by the SIWA and there is no document from the site analyzing the quality of seawater where the effluent of the storm drain and treated wastewater are discharged.
Corrective action:	A formal request to be sent to SIWA and Ministry of Environment for latest data on quality of seawater and storm drain water is to be made by January 2024, especially for effluent discharge points off the coast where BAT Solomon Islands site is located. actions with the Ministry of environment, waste management division has already been established and is waiting upon requested documentations done on the seawater along the site's shoreline.
Finding No:	TNR-007074
Checklist Item No:	1.3.5
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.
Findings:	The hazardous waste storage area was not identified on the map as one of the potential sources of pollution where soil contamination was already evident during the site tour (no rain at the time of the audit and the eventuality of contaminating the storm drain was not yet apparent.
Corrective action:	Update the site map to identify the Hazardous waste storage area as one of the potential sources of pollution, as well as clearly identify the storm water drain flow directions to proposed traps for surface run-off, enabling containments to be collected and removed in all future spills.

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## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

Finding No:	TNR-007201
Checklist Item No:	1.4.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.
Findings:	The embedded water use of primary inputs was not all quantified (only for Indonesia PMD was quantified), likewise, the quality and level of risk within the site's catchment (overseas) were not identified.
Corrective action:	The suppliers for primary inputs for the site from BAT Indonesia have been contacted with positive feedbacks on requested documents such as the embedded water use for primary inputs for Indonesia PMD, and the Quality and level of risks within the sites catchment (overseas) is already quantified from the team in Indonesia (Evidence will be attached).Moving forward, early preparations of requests to be done to ensure that all documents are provided on timely manner.

Finding No:	TNR-007076
Checklist Item No:	1.4.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.
Findings:	The embedded water use of outsourced services was not adequately identified for this indicator, only a list was provided.
Corrective action:	The site is contacting Outsourcing services to provide information on embedded uses of water provided to the site. This will be done as per the list provided previously, lugga farm, blue water and express freight which provided logistics services to the company. Review the indicator including the mapping of the embedded water use for outsourced services as the challenge is quantifying of this data by the vendors themselves. Site to work on compiling this data in a timely manner moving forward.

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Finding No:	TNR-007087
Checklist Item No:	1.5.6
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.
Findings:	The existing and planned water-related infrastructures in the catchment level were identified including the ongoing projects and future projects. The specific extreme event (flooding due to heavy rain) that may pose risks to water-related infrastructure was not identified as it was generally described as climate change.
Corrective action:	Clearly define and describe specific extreme events that may pose risks to water-related infrastructure in the catchment level. These will include, but not be limited to flooding due to heavy rain, landslides blocking source, pipe bursting due to blockage, etc. Clearly describe the events accordingly. - Moving forward, this will be improved with specifically describing the type of events and risks it poses to water infrastructures on site.
Finding No:	TNR-007094
Checklist Item No:	1.7.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.
Findings:	The water risks were identified in the document shared wherein prioritization is listed as high or medium. The likelihood and severity of impact were likewise identified including the site-level management and the impact to the site. However, potential costs were not explicitly described.
Corrective action:	Potential costs to be reviewed and added to the sites water related risks documents that was already provided. This will be improved, to ensure that potential costs are described including likelihood and severity of the site level management impacts to the site.



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Finding No:	TNR-007096
Checklist Item No:	1.7.2
Status:	Open
Finding level:	Observation
Due date:	2024-Oct-20
Checklist item:	Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.
Findings:	Some of the water-related opportunities identified by the site were the potential use of recycled water; prevention of chemical spills; etc. However, the potential savings were not detailed in the document.
Corrective action:	Potential saving to be reviewed and added in the site water related risks document that was already provided. This will be improved, to ensure that potential savings are described in the water related opportunities.
Finding No:	TNR-007099
Checklist Item No:	1.8.5
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.
Findings:	The provision of equitable and adequate WASH services within Honiara can still be updated as the data shown were from 2009 (14 years ago).
Corrective action:	Provision of equitable and adequate WASH services within Honiara has been updated to recent WASH projects and initiative programs to improve WASH in the catchment. Moving forward, document is to be carefully assessed before added to future documents submissions.
Finding No:	TNR-007123
Checklist Item No:	3.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.
Findings:	The status of progress towards meeting water balance targets set in the water stewardship plan was only identified for the catchment level, no status was identified for the site level.
Corrective action:	The status of progress for site level towards achieving the Water balance target is to be clearly identified and updated within the water stewardship plan.

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Finding No:	TNR-007124
Checklist Item No:	3.3.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented.
Findings:	A daily water leakage tracker was accordingly used to support the water reduction target. However, there's no further evidence provided on how it works and the status of reduction against the target of -35% water withdrawn by 2025 and 30% water recycled by 2025.
Corrective action:	Formulate a water usage tracker by the site and look into options of having flowmeters on site to support level 2/3 monitoring. Provide evidence of daily monitoring of water usage and identifying potential areas of water leakage on a daily basis to achieve water targets of -35% water withdrawn by 2025 and 30% water recycled by 2025. (This also includes supportive evidence to be provided on the water reduction targets), also inclusions of the Sustainability roadmap document to support status of reduction against the target of -35% water withdrawn by 2025 and 30% water recycled by 2025.
Finding No:	TNR-007126
Checklist Item No:	3.4.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.
Findings:	Three documents were submitted for this indicator, but these are all raw data. The status of the water stewardship plan meeting water quality targets was not available, i.e., Drinking water on-site should comply with local and WHO drinking water standards (though this may also be part of WASH for safe drinking water).
Corrective action:	Review and update the water stewardship plan meeting the water quality targets aligning with local and WHO drinking water standards. However, this indicator has been addressed, the blue water company which is our drinking water suppliers have provided information on the results of drinking water quality.

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Finding No:	TNR-007184
Checklist Item No:	3.4.2
Status:	Open
Finding level:	Observation
Due date:	2024-Oct-20
Checklist item:	Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.
Findings:	The site may consider researching the quality of seawater where the ultimate discharge of the site's effluent goes. In addition, testing of effluent from storm drains can be considered as well, especially during the rainy season.
Corrective action:	Consult quality team on site to develop plans on researching the quality of seawater where ultimate discharge of sites effluent goes.
Finding No:	TNR-007864
Checklist Item No:	3.5.1
Status:	Open
Finding level:	Observation
Checklist item:	Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.
Findings:	The site is recommended to expand their activities for IWRA projects in the catchment to continue to meet the requirement of the indicator going forward.
Corrective action:	Planning other activities in catchment with relevant stakeholders to expand IWRA projects in the catchment to continue to meet the requirement of the indicator going forward.
Finding No:	TNR-007127
Checklist Item No:	3.7.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.
Findings:	There was no evidence that indirect water use targets were set in the water stewardship plan as this has not been addressed in indicators 1.4.1 and 1.4.2.
Corrective action:	The action for this indicator is to review and update the Water stewardship plan to address indirect water use targets to address in indicators 1.4.1 and 1.4.2.

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Audit Number: AO-000831

Finding No:	TNR-007129
Checklist Item No:	3.7.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.
Findings:	There was no evidence of engagement with suppliers of primary inputs (overseas) such as CRT leaf, cigarette paper, etc. In addition, there was no filled-out SIWA Questionnaire was shared.
Corrective action:	<p>The first corrective action is to establish engagement with responsible suppliers of primary inputs in BAT Indonesia, this will be carried out by the sustainability manager. As BAT Indonesia has already been AWS certified contacts has already been underway liaising with suppliers. Engagements with suppliers of primary inputs in Indonesia has been done (evidence will be attached) .</p> <p>Establish engagement with suppliers and identify actions taken in the catchment as a result of the site's engagement related to indirect water use. Questionnaires from SIWA is also available.</p>
Evidence of implementation:	Attached is the evidence of the primary inputs supplier and also the questionnaire feedback from SIWA.
Finding No:	TNR-007134
Checklist Item No:	3.9.1
Status:	Open
Finding level:	Observation
Due date:	2024-Oct-20
Checklist item:	Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.
Findings:	The status of actions towards achieving best practices related to water governance is still ongoing with approved CAPEX and a target of completion in Q4 of 2023 for wastewater recycling. The details of the current status can be documented for better monitoring and its linkage to indicator 1.8.1 can also be established.
Corrective action:	<p>Project for wastewater recycling is in progress on site, Plan schedule (details of the status) of the project is available and will be attached as evidence to describe its linkage to indicator 1.8.1</p>

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Finding No: TNR-007135  
Checklist Item No: 3.9.2  
Status: Open  
Finding level: Observation  
Due date: 2024-Oct-20  
Checklist item: Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.  
Findings: The status of actions towards achieving best practices related to water balance is still ongoing with approved CAPEX and a target of completion in Q4 of 2023 for wastewater recycling. The current status can be documented for better monitoring and its linkage to indicator 1.8.2 can also be established.

Corrective action:

CAPEX project for wastewater recycling is in progress on site, Plan schedule (details of the status) of the project is available and will be attached as evidence to describe its linkage to indicator 1.8.3.

Finding No: TNR-007185  
Checklist Item No: 3.9.3  
Status: Open  
Finding level: Observation  
Due date: 2024-Oct-20  
Checklist item: Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.  
Findings: The status of actions towards achieving best practices related to water quality is still ongoing with approved CAPEX and a target of completion in Q4 of 2023 for wastewater recycling. The current status can be documented for better monitoring and its linkage to indicator 1.8.3 can also be established.

Corrective action:

CAPEX project for wastewater recycling is in progress on site, Plan schedule (details of the status) of the project is available and will be attached as evidence to describe its linkage to indicator 1.8.3.

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## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

Finding No:

TNR-007141

Checklist Item No:

4.1.1

Status:

In Progress - CA plan approved

Finding level:

Minor

Due date:

2024-Oct-20

Checklist item:

Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.

Findings:

AWS Stewardship Strategic Plan submitted has no evaluation at the time of audit. The attached documents are the evaluation of stakeholder engagement; and the evaluation of site performance (not directly the Water Stewardship Plan). Another document is the AWS Water Stewardship Strategic Plan which can't be linked to the Water Stewardship Plan.

Corrective action:

Evaluation of the site's water stewardship plan of performance against target will be reviewed and supporting documents will be updated.

Finding No:

TNR-007142

Checklist Item No:

4.1.2

Status:

Open

Finding level:

Observation

Due date:

2024-Oct-20

Checklist item:

Value creation resulting from the water stewardship plan shall be evaluated.

Findings:

The document shared for this indicator can't be directly linked to the status (indicator 3.3) of the Water Stewardship Plan (indicator 2.3.2). The evaluation was independently done for rainwater harvesting, metering, project splash, WASH refurbishments, and pipe works.

Corrective action:

To review and update stewardship plan and explain its linkage between indicators 3.3 (site water balance) and 2.3.2 (water stewardship plan) and provide relevant justifications and evidence to support this.

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Audit Number: AO-000831

Finding No:

TNR-007143

Checklist Item No:

4.1.3

Status:

Open

Finding level:

Observation

Due date:

2024-Oct-20

Checklist item:

The shared value benefits in the catchment shall be identified and where applicable, quantified.

Findings:

The documents shared for this indicator contain shared value benefits in the catchment described in the column Cost/ benefits of AWS Water Stewardship Plan. However, this document is different from that of indicator 2.3.2.

Corrective action:

Review and update documents in 2.3.2 and make necessary changes to align with the indicator of shared value benefits in the catchment.

Finding No:

TNR-007144

Checklist Item No:

4.2.1

Status:

Open

Finding level:

Observation

Due date:

2024-Oct-20

Checklist item:

A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.

Findings:

The documents shared for this indicator indicate that there were no water-related emergency incidents. However, the recording can be improved by indicating when the review was done and who were the participants in the review.

Corrective action:

To update and Improve documents by Indicating when the review was done and who were participants in the review. - Also add persons responsible.

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Audit Number: AO-000831

Finding No: TNR-007145  
Checklist Item No: 4.3.1  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2024-Oct-20  
Checklist item: Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.  
Findings: Though it's understood that the site has yet to disclose its water stewardship performance based on the achievement of its water stewardship plan; several stakeholders were engaged and their respective feedback was sought relative to the queries of the site - not related to the site's water stewardship performance.  
Corrective action: Contact stakeholders to Disclose of WSP performance publicly to relevant stakeholders and get feed backs from the sites water stewardship plan.

Finding No: TNR-007147  
Checklist Item No: 4.4.1  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2024-Oct-20  
Checklist item: The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.  
Findings: Based on the shared documents both for site and catchment Water Stewardship Plans, there is no indicator that the documents can be traced as their initial inception, review, and latest updates. The person in charge was not likewise described including the person who reviewed/checked and approved the plan.  
Corrective action: Water stewardship plan to be reviewed and updated to add the initial inception, review, and latest update. Also, to Include person who reviewed/checked and approved the plan.



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Audit Number: AO-000831

Finding No: TNR-007151  
Checklist Item No: 5.1.1  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2024-Oct-20  
Checklist item: The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.  
Findings: The site's AWS Governance Structure was shared as attached but there's no clear evidence that this has been disclosed to relevant stakeholders, not even on the site's Notice Board.  
Corrective action: AWS internal governance structure to be disclosed to relevant stakeholders. And will be disclosed by the site on departmental notice board accordingly. There will be a Stakeholder engagement that will disclose the internal governance structure and other relevant AWS related information that needs to be disclosed. In addition, the governance structure will also be put up on all notice boards on site.  
Evidence of implementation: 1. Evidence of disclosure to stakeholders  
2. Disclose on site notice boards for visibility and information.

Finding No: TNR-007737  
Checklist Item No: 5.2.1  
Status: Open  
Finding level: Minor  
Due date: 2024-Oct-20  
Checklist item: The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.  
Findings: There is no shared evidence that the water stewardship plan was communicated to the relevant stakeholders, though photos were available for the engagements.  
Corrective action: 1. Evidence of shared water stewardship plan to be communicated to relevant stakeholders including process of disclosing the site water stewardship plan to stakeholders and local communities.  
2. Evidence along with the updated AWS manual will be shared during the surveillance audit. Evidence of WSP in terms of letter or, that would show our communications with stakeholders.

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Audit Number: AO-000831

Finding No:	TNR-007150
Checklist Item No:	5.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-20
Checklist item:	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.
Findings:	There was no evidence that the site's water stewardship performance was summarized, quantified against the targets (2.3.2), and disclosed, though stakeholders' engagements were evident. AWS Water Stewardship Strategic Plan was shared for this indicator and the photos of engagements among the site's relevant stakeholders.
Corrective action:	Planning other activities in catchment with relevant stakeholders to expand IWRA projects in the catchment to continue to meet the requirement of the indicator going forward. Review and summarize of the site's water stewardship performance quantified against the targets set in (2.3.2) and disclose it though stakeholders' engagements.

Finding No:	TNR-007152
Checklist Item No:	5.4.1
Status:	Open
Finding level:	Observation
Due date:	2024-Oct-20
Checklist item:	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.
Findings:	The site's AWS Signed Policy and Stakeholders' engagements and announcements were shared for this indicator. However, there's no clear evidence of the disclosure of water-related challenges and efforts made to address these challenges.
Corrective action:	<div>1. The site will expand its stakeholder communication process.</div> <div>2. Evidence along with the updated AWS manual will be shared during the surveillance audit and future stakeholder engagements.</div> Including water related challenges and efforts to address these challenges through best practice implementation.

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

Finding No: TNR-007186  
Checklist Item No: 5.5.1  
Status: Open  
Finding level: Observation  
Due date: 2024-Oct-20  
Checklist item: Any site water-related compliance violations and associated corrections shall be disclosed.  
Findings: Based on the S&I review from Jan 2023 up to Jun 2023, there were no water-related compliance violations reported. Recording of monthly meetings can be considered for timely updates.  
Corrective action: The site will compile a Recordings of monthly meetings for timely updates and monitoring of compliance reporting.

Finding No: TNR-007153  
Checklist Item No: 5.5.3  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2024-Oct-20  
Checklist item: Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.  
Findings: The disclosure of water-related violations that may pose significant risks and threats to human or ecosystem health was not yet included in the document shared.  
Corrective action: 1. The site will develop a procedure and mechanism to share any site water-related violation/incident that may pose a significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies.  
2. The evidence including Site "water related incidence response plan report "will be submitted during the surveillance audit.

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

### Report Details

Report	Value
Report prepared by	Elizabeth Villezar
Report approved by	Lurdes Guerra
Report approved on (Date)	28/11/2023

### Surveillance

Proposed date for next audit  
2024-Oct-16

### Stakeholder Announcements

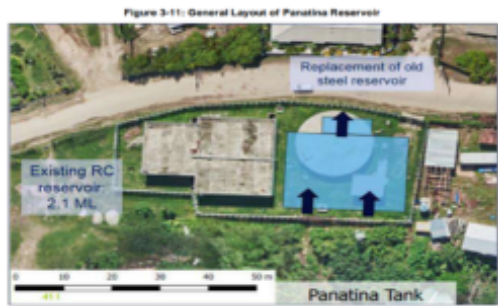
Date of publication	Location
07/09/2023	Solomon Star Newspaper <a href="https://a4ws.org/certification/stakeholder-announcements/">https://a4ws.org/certification/stakeholder-announcements/</a>
21/08/2023	<a href="https://watersas.org/stakeholder-announcements/">https://watersas.org/stakeholder-announcements/</a>
Comment	Newspaper publication (Solomon Star Newspaper) dated 07 Sep 2023 Published on AWS & WSAS websites.
Comment	There were three nominated Stakeholders for the interview, i.e., Earth Movers Group of Companies; the Ministry of Fisheries, and the Solomon Islands Water Authority. However, only two were interviewed as there was a family emergency for the representative of the Ministry of Fisheries.

Audit Number: AO-000831

Catchment Information

Catchment Information

The Solomon Islands Water Authority (State-owned utility company) is responsible for water supply and wastewater management in the country and there are several water sources identified - surface water (springs) and groundwater (boreholes). SIWA uses the Kongulai water source in West Honiara as the main water source for Honiara, but it also jacks up the pressure through various bore-hole pumps around the city to channel water to its network of reservoirs serving different parts of the city.
The Panatina bore field is located close to the coast, in the locality of Panatina, which is located on the eastern side of the city. The three bores discharge groundwater directly to Panatina Reservoir (TWL RL47m) via a DN200 common rising main. The Panatina Reservoir can also be topped up from the Kombito Spring gravity system. The Panatina bores typically supply around 2 ML/d to Panatina Reservoir, which services a water supply zone that includes the local Panatina area, as well as the Ranadi industrial area, and out to Henderson Airport. Up to 4 ML/d (45 L/s) is extracted from the Kombito Spring via a DN200 gravity pipeline system. The gravity system supplies a small downstream water supply zone and is a top-up for Panatina Reservoir. Whenever Kombito Spring lacks a water supply, Kongulai Spring can then be topped up.



1.png



2.png

Comment

Two documents were submitted for this to explain the ultimate sources of water supplied by SIWA (Solomon Islands Water Authority).

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

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### Client Description and Site Details

#### Client/Site Background

BAT Solomon Islands (Solomon Islands Tobacco Company - SITCO) is located within the Ranadi Industrial area east of the capital of the Solomon Islands, Honiara. Its lot area is 0.92ha along Kukum Highway next to Ranadi Shoreline. The BAT Solomon Islands (SITCO) has almost dry processes as only packing of tobacco leaves is done here using CRT and plastic pouches. The only water usage evident was the washing of gum pots and personnel after work or during work. The products are distributed within the Islands among the locals only. However, all raw materials are imported from other countries. It was also known during the audit that BAT SITCO is one of the companies (if not the number one) that pays big taxes to the Government of Solomon Islands.

There are two sources of water within the plant, one from the Solomon Islands Water Authority and from the rainwater collected in several tanks during the rainy season (filtration system is in place).

The BAT SITCO Site is being served by the Panatina Reservoir, which is situated on the ridge just above the physical site. An underground pipe network connects Panatina Reservoir to the site and is supplied via a 50mm pipe with a Valve and Water Check Meter. SIWA meter readers do a monthly meter reading for billing purposes and SITCO keeps a daily record of this water check meter reading for daily reporting purposes. Thus, Panatina water boreholes are the ultimate water source of SITCO and its ultimate discharge is the Ranadi seafront connected to an underground pipe approximately 200m accordingly from the shoreline.

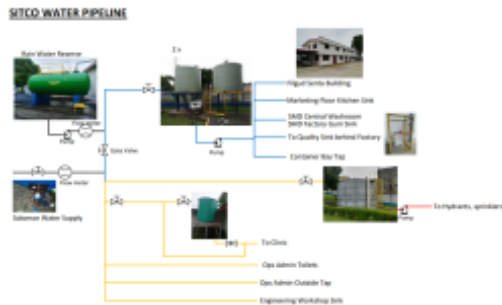


4.png

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

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3.png

Comment There were four documents submitted to describe the site's details.

### Summary of Shared Water Challenges

#### Summary of Shared Water Challenges

The following were the identified shared water challenges among the Stakeholders of SITCO:




1. Water turbidity resulting from several factors such as during rainy season
2. Contamination resulting from logging activities, pit latrines
3. Public lack of awareness on how to manage water
4. High water loss due to unwise usage of water and underground pipe leakages
5. Lack of institutional framework that clearly defines roles and responsibilities of different organizations and ministries within the water sector
6. Water scarcity due to climate change
7. Lack of sanitation infrastructure, and insufficient, and aging water system
8. Pollution from waste & chemicals into rivers, streams, etc.
9. Lack of ongoing water quality monitoring program implemented for major developments in the country
10. Lack of a national water quality standards
11. Outdated legislations and fragmentation of existing legislations
12. Heavy rainfalls causing cease in water supply from main supplier (SIWA/ Solomon water)
13. Poor quality of sea water during rough weather, posing risks to the health status of the sea inhabitants
14. Saltwater pollution
15. Flooding during cyclone

Comment Shared Water Challenges were excerpted from several documents shared during the audit.

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

0.1 General Requirements for Single Sites, Multi-Sites and Groups	
0.1.1	<i>Eligibility Criteria</i>
0.1.1.1	<i>The site(s) occupy one catchment OR an exception has been granted.</i> 
Comment	Yes
	AT Solomon Islands (Solomon Islands Tobacco Company - SITCO) is located within the Ranadi Industrial area east of the capital of the Solomon Islands, Honiara. Its lot area is 0.92ha along Kukum Highway next to Ranadi Shoreline. The BAT Solomon Islands (SITCO) has almost dry processes as only packing of tobacco leaves is done here using CRT and plastic pouches. The only water usage evident was the washing of gum pots and personnel after work or during work. The products are distributed within the Islands among the locals only. However, all raw materials are imported from other countries. It was also known during the audit that BAT SITCO is one of the companies (if not the number one) that pays big taxes to the Government of Solomon Islands.
0.1.1.2	<i>The scope of the proposed certification shall be under the control of a single management system.</i> 
Comment	Yes
	BAT Solomon Islands Tobacco Company - SITCO is a single-site facility under the control of a single management system headed by a General Manager with support from the Compliance and Corporate Affairs Executive, the Head of Operations, the Quality Executive, the Engineering Exec/ Sustainability Manager, the Quality Officer, Sustainability, Operation team leader - Operations, and the Supply Chain Manager.
0.1.1.3	<i>The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.</i> 
Comment	Yes
	The scope of the proposed certification is BAT SITCO's water management from its ultimate source up to the ultimate discharge of its wastewater in relation to its operations (from supply chain warehouse to factory; FMC processing; production to market - involving machine and manual packing).



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

### 1 STEP 1: GATHER AND UNDERSTAND

**1.1** *Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant.*

**1.1.1** *The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:*

- Site boundaries;
- Water-related infrastructure, including piping network, owned or managed by the site or its parent organization;
- Any water sources providing water to the site that are owned or managed by the site or its parent organization;
- Water service provider (if applicable) and its ultimate water source;
- Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies;
- Catchment(s) that the site affect(s) and is reliant upon for water.



Yes

**Comment** The following were verified and validated with the site's representatives:

- Site boundaries - mapped in SITCO Site boundary and water piping schematic-updated
- Water-related infrastructure, including the piping network, owned & managed by the site described in SITCO Water Piping Schematics final and Water-related facilities onsite
- Any water sources providing water to the site that is owned or managed by the site - there are two tanks of 25,000L rainwater storage and another six rainwater storage of 10,000L each (pictures are in SITCO Mapping Water Diagram and SITCO Site boundary and water piping schematic-updated)
- Water service provider (if applicable) and its ultimate water source - SIWA is the water service provider with a water meter installed within the site and the ultimate source is coming from Panatina Boreholes.
- Discharge points and wastewater service provider (if applicable) and ultimate receiving water body or bodies - the ultimate receiving water body is the Ranadi Seafront with a discharging pipe 200m away from the shore.
- Catchment that the site affects (usage only) and is reliant upon for water is the Panatina Boreholes just above the site and the site can also affect the seafront where the treated wastewater and storm drain are directly connected and discharged.

**1.2** *Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.*

**1.2.1** *Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:*

- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;
- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;
- Provide evidence of stakeholder consultation on water-related interests and challenges;
- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;
- Identify the degree of stakeholder engagement based on their level of interest and influence.




No

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Comment	Stakeholders and their water-related challenges were identified in BAT Solomon Islands Stakeholders' Water-Related Challenges & Sphere of Influence document that includes Solomon Islands Water Authority (SIWA); Ministry of Mines, Energy and Rural Electrification; Ministry of Environment, Climate Change, Disaster Management, and Meteorological services; BAT Staff; Ministry of Fisheries and Marine Resources; Solomon Islands National University – Maritime Academy, and Paoa FM.	
	Earth Movers Group of Companies was not listed in the document provided.	
		<b>Finding No: TNR-007017</b> <b>Finding No: TNR-007018</b>
1.2.2	<i>Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.</i>	 No
Comment	BAT Solomon Islands Stakeholders' Water-Related Challenges & Sphere of Influence document includes the current degree of influence between the site and the stakeholder (rated as high and medium). However, the stakeholders do not include the site's supply chain.	
		<b>Finding No: TNR-007021</b>
1.3	<i>Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.</i>	
1.3.1	<i>Existing water-related incident response plans shall be identified.</i>	 Yes
Comment	The existing water-related incident response plans are documented in the site water-related incident response plans supported with the EHS Programme Tracker where AWS activities are a part of.	
1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>	 Yes
Comment	The SITCO Compound Water Piping diagram mapped the sources of water (rainwater and SIWA supply) going to various uses. There are seven documents submitted that adequately address this indicator.	
1.3.3	<i>Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.</i>	 Obs.
Comment	There was 4,695cum total withdrawal (rainwater is 277cum, and the rest comes from SIWA supply); 4,503.1cum was discharged to the sea; 229.75cum was discharged to the ground (washing activities that do not pass through septic tank); consumed water is 91.9cum (for cooking) with 100.1cum was accordingly due to mostly water line leakages underground. Daily Meter readings from SIWA and rainwater usage (done first thing in the morning) are done to ensure that water usage is well-monitored. Other raw data supporting the water balance computation are submitted for further reference. Water-related challenge identified for this indicator is the water losses due to water line leakages underground.	
1.3.4	<i>Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.</i>	 Obs.

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Comment	The water quality of the site's water sources is tested by SIWA with a document 2022 & 2023 Water Quality Data updated as of 14.09.2023 for the parameters such as FCR (free chlorine residual), pH, temperature, turbidity, ORP (oxidation-reduction potential), EC (electrical conductivity), TDS (total dissolved solids), Escherichia coli or E. coli, Total Coliform. Threats to good water quality were described in the document "Catchment Area" such as but not limited to turbidity for surface water and contamination of groundwater. A License to Discharge issued on 21 Aug 2023 was secured by the site for its treated wastewater discharges so long as the site complies with all the applicable regulatory requirements relative to such. The effluent quality is tested on a monthly basis by the SIWA looking into some parameters such as but not limited to effluent color, DO, pH, NH3, NO3, PO4, Cl, etc. However, the testing of effluent is only for the effluent coming from the wastewater plant. The effluent coming from the storm drain is not tested by the SIWA and there is no document from the site analyzing the quality of seawater where the effluent of the storm drain and treated wastewater are discharged.	
1.3.5	<i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i>	 No
Comment	There is one document provided for this indicator. The potential sources of pollution within the site are the automotive diesel fuel tank area and the chemical storage room. These areas were seen during the tour of the site. However, the hazardous waste storage area was not identified on the map where soil contamination was already evident during the site tour. <b>Finding No: TNR-007074</b>	
1.3.6	<i>On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.</i>	 Yes
Comment	Based on the site tour, SITCO has no IWRA within the site, only water-related infrastructures were evident. However, should there be any in the future within the site, they will identify such and have it mapped as per committed. The site has identified IWRAs at the catchment level (Kongulai Water Source).	
1.3.7	<i>Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.</i>	 Yes
Comment	The annual water-related costs were identified in the document submitted categorizing the costs as related to either social, environmental, or economic. The revenues have not yet been identified in the document. The site is still monitoring its rainwater usage which can be associated with water-related cost savings. Raw data were provided as well for further verification.	
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	Several documents were shared for this indicator including photos of the WASH within the site. The adequacy of WASH facilities was likewise validated during the onsite audit. Other photos of WASH facilities were included in the site tour photos.	
1.4	<i>Gather data on the site's indirect water use, including: its primary inputs; the water use embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be identified); and water used in out-sourced water-related services.</i>	
1.4.1	<i>The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.</i>	 No
Comment	The document submitted claimed that the site has no embedded water use which contradicts other information contained therein that the primary inputs are coming from other countries. Though Primary Water Use - Indonesia PMD is shared for this indicator covering Dec 2021 up to Oct 2022 only. Alignment of these documents can be considered.	

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## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831


**Finding No: TNR-007201**

**1.4.2** *The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.*  No


Comment Several documents were shared for this indicator which include a list of vendors and the services/ products provided. However, other documents are irrelevant as the site's water use was described, not of the outsourced services though South Pacific Oil was identified as one of the outsourced service providers (added document on 05 Nov 2023). Quantification of embedded water use for this outsourced service provider is not yet done. Indonesia PMD water use has records from Dec 2021 up to Oct 2022 only.

**Finding No: TNR-007076**


**1.5** *Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH*

**1.5.1** *Water governance initiatives shall be identified, including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.*  Yes


Comment The water governance initiatives from a country level were identified including that of the catchment (Honiara). The water-related public policies past and future were listed therein such as Solomon Islands Rural Water Supply, Sanitation and Hygiene Policy 2014; Solomon Island National Environment Management Stratégie 2020-2023; Solomon Water 30 years Strategic Plan (2017-2047); River Waters Ordinance 1969; Environment Act 1998; Public Health Ordinance 1970: authorizes inspections to be conducted for water pollution regulation; Solomon Islands Water Authority Act 1992.

**1.5.2** *Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.*  Yes

Comment The applicable water-related legal and regulatory requirements were listed in the document shared - no legally defined and/ or stakeholder-verified customary water rights were noted.

**1.5.3** *The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.*  Yes






Comment There were several documents shared for this indicator wherein one enumerates the catchment water balance, including the Honiara Water Supply System – Water Resources and Production; the Average Monthly Rainfall for Honiara; and the projected changes of average annual and seasonal rainfall in Honiara. The assessment was based accordingly to the concepts and techniques recommended by the International Water Association (IWA) Task Force.

**1.5.4** *Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.*  Yes

# CERTIFICATION REPORT

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Comment	<p>The catchment identified in the documents shared was that of Kongulai Spring is the ultimate source of water for the Kongulai Water Treatment Plant. This catchment was likewise visited during the audit as this was the identified ultimate source of water distributed by SIWA. However, the Panatina bore field was accordingly the source of water supplied to the site (reference: 30YearStrategicPlan-MainReport of Solomon Water - June 2017)</p> <p>Water challenges identified for Kongulai Spring:</p> <ul style="list-style-type: none"> <li>- High turbidity during rainy seasons, from Kongulai water source and Kombito water source.</li> <li>- Human sabotage of water sources, caused by polluting sinkholes that supply Kongulae sources.</li> <li>- Water loss caused by aging infrastructure, causes a decrease in water quality</li> </ul> <p>Water challenges identified for boreholes:</p> <ul style="list-style-type: none"> <li>- Residential developments (legal &amp; illegal) with septic tanks and/ or pit latrines that can contaminate groundwater</li> <li>- The bores regularly test positive for E. coli and total coliforms which are signs of human habitation (controls are underway)</li> </ul>	
1.5.5	<i>Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.</i>	 Yes
Comment	<p>The important water-related areas identified were the Kongulai Spring (water source) and the Kongulai Water Pump Station and Treatment Plant.</p> <p>Other identified IWRAs such as the Betelnut garden trees, Breadfruit trees, and Sago Palm trees were further described as to their important roles in the catchment area where water is concerned.</p>	
1.5.6	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 No
Comment	<p>The existing and planned water-related infrastructures in the catchment level were identified including the ongoing projects and future projects. The specific extreme event (flooding due to heavy rain) that may pose risks to water-related infrastructure was not identified as it was generally described as climate change.</p>	
<b>Finding No: TNR-007087</b>		
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
Comment	<p>The available WASH services within the catchment were identified, though it was noted that the inadequacy of these services is yet to be addressed by the Government of Solomon Islands specifically for schools. This is where the SITCO can look into future collaboration with the Government.</p>	
1.6	<i>Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.</i>	
1.6.1	<i>Shared water challenges shall be identified and prioritized from the information gathered.</i>	 Yes
Comment	<p>The shared water challenges were identified and prioritization was in the document shared and rated as medium for all the six challenges.</p>	
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	<p>Initiatives to address shared water challenges were listed in the Site-level Management of the submitted document.</p>	

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831

1.7	Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends identified in 1.6.	
1.7.1	Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.	 No
Comment	The water risks were identified in the document shared wherein prioritization is listed as high or medium. The likelihood and severity of impact were likewise identified including the site-level management and the impact to the site. However, potential costs were not explicitly described.	
Finding No: TNR-007094		
1.7.2	Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.	 Obs.
Comment	Some of the water-related opportunities identified by the site were the potential use of recycled water; prevention of chemical spills; etc. However, the potential savings were not detailed in the document.	
1.8	Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.	
1.8.1	Relevant catchment best practice for water governance shall be identified.	 Yes
Comment	The relevant catchment best practice for water governance was identified in Best Practice for Water Governance - The JICA Project for the Improvement of Water Supply Systems in Honiara and Auki; The JICA Non-Revenue Water Reduction Technical Cooperation Project; Reducing NRW and improving levels of service in Honiara; and Customer Meter Replacement.	
1.8.2	Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.	 Yes
Comment	Some of the best practices that SIWA has been implementing are water main renewals of approximately 258km of existing reticulation and distribution mains over the next 30 years; Pump Station Refurbishment Distribution (two-year plan refurbishment of pumps at eight locations); and pressure-reducing valves (PRV) at locations where average day pressures exceed 70m.	
1.8.3	Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.	 Yes
Comment	The water quality distributed by SIWA is being tested on a monthly basis in the Honiara area within the nominated sampling points both for surface and groundwater sources. The parameters tested for raw water sources are pH, temperature, turbidity, ORP, EC, TDS, DO, Escherichia coli or E. coli, Total Coliform, sulfate, phosphate, ammonia, total hardness, chlorine, NaCl, alkalinity, manganese, nickel, nitrate nitrogen, nitrite nitrogen, nitrite, iron and potassium among others. The other type of water tested is the reticulation type wherein the parameters tested are FCR, pH, turbidity, ORP, EC, TDS, Escherichia coli or E. coli, and Total Coliform with the latest record on 14 Sep 2023.	
1.8.4	Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.	 Yes



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Comment

Two documents were shared for this indicator - Honiara Coastal Environment Impact Assessment, Solomon Islands; and Solomon Islands National Environment Management Strategy 2020–2023 (Freshwater Strategies).

1.8.5

Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.

No

Comment




The provision of equitable and adequate WASH services within Honiara can still be updated as the data shown were from 2009 (14 years ago). Latest record can be provided for data accuracy. The site through its ESG initiatives, implemented Project Splash - a clean drinking water solution for deprived communities.

Finding No: TNR-007099

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-000831



2	STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	<i>Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.</i>	
2.1.1	<i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i> <ul style="list-style-type: none"> <li>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</li> <li>- That the site implementation will be aligned to and in support of existing catchment sustainability plans</li> <li>- That the site's stakeholders will be engaged in an open and transparent way</li> <li>- That the site will allocate resources to implement the Standard.</li> </ul>	 Yes
Comment	A signed AWS Policy is available dated March 2023 that is aligned with the requirements of this indicator.	
2.2	<i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i>	
2.2.1	<i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i> <ul style="list-style-type: none"> <li>- Identification of responsible persons/positions within facility organizational structure</li> <li>- Process for submissions to regulatory agencies.</li> </ul>	 Yes
Comment	There are four documents submitted for this indicator. 2.2 Governance Structure (SITCO AWS Internal Governance structure headed by General Manager as the total decision maker; Engineering Exec/ Sustainability Manager/ AWS Lead/ Site infrastructure and Services Management/ Stakeholder Consultation; Compliance & Corporate Affairs Exec/ Internal Comms/Compliance/ Corp. Affairs/ Stakeholder consultation/ AWS member; and Sustainability/ Stakeholder consultation/ Records and data management/ AWS INTERN). 2.2.1 Operations Organizational chart (highlights the role of LEX - Legal and External Affairs).	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	
2.3.1	<i>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</i>	 Yes
Comment	The signed AWS Policy dated March 2023 defines the overarching mission, vision, and goals of the site towards water stewardship. This is supported by the site's AWS Water Stewardship Strategic Plan which includes objectives, targets, metrics, actions, cost/ benefits, linkages to the site's/ catchment's water-related risks/ opportunities, responsible person, and the timeframe (start & end dates).	



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<b>2.3.2</b>	<p><i>A water stewardship plan shall be identified, including for each target:</i></p> <ul style="list-style-type: none"> <li>- <i>How it will be measured and monitored</i></li> <li>- <i>Actions to achieve and maintain (or exceed) it</i></li> <li>- <i>Planned timeframes to achieve it</i></li> <li>- <i>Financial budgets allocated for actions</i></li> <li>- <i>Positions of persons responsible for actions and achieving targets</i></li> <li>- <i>Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.</i></li> </ul>	 Yes
Comment	<p>There are two water stewardship plans shared - catchment and site describing objectives, targets, AWS outcomes, action, how to measure, projects/ activities completed, creation value - site/ catchment, PIC and commence date for the site level. The catchment level, includes Objectives, Targets, Outcomes from AWS, Site/ Catchment, How to Measure, Actions, Responsibility, Projects completed, Project Commencement, Status, value creation - Site, and Value creation - Catchment.</p>	
<b>2.4</b>	<p><i>Demonstrate the site's responsiveness and resilience to respond to water risks</i></p>	
<b>2.4.1</b>	<p><i>A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.</i></p>	 Yes
Comment	<p>B8: Water-Related Emergency Response Plan LEHS-STD- B8 Rev 1 contained the response plans in cases of water-related emergencies that may result from Failure of the distribution system; Leakage(s) in distribution lines; Failure of water treatment plants; Contamination of hazardous materials with main distribution line; and Collapse of structures such as water reservoirs. In addition, the Site's Resilience to Risk Response was shared stating the site's water-related risks and the corresponding response plans. Water-Related Issues Incident Form was likewise provided which can be improved by including immediate action in addition to the root cause analysis, and corrective action.</p>	

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3 STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts	
3.1	Implement plan to participate positively in catchment governance.
3.1.1	Evidence that the site has supported good catchment governance shall be identified. <span>✓</span> Yes
Comment	Through its ESG Strategy, the site has supported good catchment governance as described in the document SITCO ESG LEX - Project Splash in which the site provides solar-powered clean water solutions for deprived communities with an actual 9000 beneficiaries to date since 2022.
3.1.2	Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented. <span>✓</span> Yes
Comment	The site shared two documents for this indicator stating the best practices within the catchment level managed by the authorities and the identified laws and regulations for indigenous peoples related to water rights that the site may affect. However, the site has claimed that these water rights are all addressed by the country's laws and regulations, and as verified during the audit, the site has no violations cited by the authorities specifically to water-related matters.
3.2	Implement system to comply with water-related legal and regulatory requirements and respect water rights.
3.2.1	A process to verify full legal and regulatory compliance shall be implemented. <span>✓</span> Yes
Comment	The document Governance Structure describes that LEX is responsible for ensuring legal & regulatory compliances. At the time of the audit, the site had no violations issued by the authorities and the site has a valid License to discharge waste (waste water/ liquid waste - industrial effluent) issued on 21 Aug 2023.
3.2.2	Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented. <span>✓</span> Yes
Comment	All water rights are already part of the laws of the country, no other identified water rights were evident and the site was able to demonstrate its compliance with water-related laws and regulations as evidenced by the license to discharge. While SIWA is continuously providing water supply to the site, there's no water-related legal issue as to the usage of water as this is provided by the authority.
3.3	Implement plan to achieve site water balance targets.
3.3.1	Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified. <span>✗</span> No
Comment	The status of progress towards meeting water balance targets set in the water stewardship plan was only identified for the catchment level (ongoing), no status was identified for the site level though targets were set as documented in ESG Glidepaths stating that rainwater harvesting is currently practiced and grey water reuse is within Q3 of 2023 - still no status as to how much is harvested and re-used supported with actions to meet the targets and the EHS Steering Committee Meeting Slides.

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<b>3.3.2</b>	<i>Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented.</i>	 No
Comment	Two PowerPoint documents were shared for this indicator describing the targets for water reduction usage and recycling by the year 2025 supported by EHS Steering Committee Meeting. A daily water leakage tracker was accordingly used to support the water reduction target. However, there's no further evidence provided on how it works and the status of reduction against the target of -35% water withdrawn by 2025 and 30% water recycled by 2025. <b>Finding No: TNR-007124</b>	
<b>3.3.3</b>	<i>Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.</i>	 Yes
Comment	Two PowerPoint documents were shared for this indicator describing the targets for water reduction usage and recycling by the year 2025 supported by the EHS Steering Committee Meeting. A legally binding documentation was provided for this indicator, especially for Project Splash between Youth with Mission Solomon Islands and Solomon Islands Tobacco Company Limited dated March 2023 for the supply of services: Water Supply Development for Naorua Waie'e East Areare Malaita Province and Moli Camp, Moli Station - Loboro, Tarepasika, Choiseul Province.	
<b>3.4</b>	<i>Implement plan to achieve site water quality targets</i>	
<b>3.4.1</b>	<i>Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.</i>	 No
Comment	Three documents were submitted for this indicator, but these are all raw data. The status of the water stewardship plan meeting water quality targets was not available, i.e., Drinking water on-site should comply with local and WHO drinking water standards (though this may also be part of WASH for safe drinking water). <b>Finding No: TNR-007126</b>	
<b>3.4.2</b>	<i>Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.</i>	 Obs.
Comment	There were four documents shared for this indicator, however, three of these are raw data for the effluent quality & water quality at source. The site may consider researching the quality of seawater where the ultimate discharge of the site's effluent goes. In addition, testing of effluent from storm drains can be considered as well, especially during the rainy season.	
<b>3.5</b>	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
<b>3.5.1</b>	<i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i>	 Obs.
Comment	There was no IWRA onsite as validated during the time of the audit, only water-related infrastructures were evident onsite. However, the implementation phase for IWRAs at the catchment level is described in Water Stewardship Plan item# 5 wherein SIWA and BAT SITCO are responsible for the tree planting project to maintain the quality of water within the catchment.	
<b>3.6</b>	<i>Implement plan to provide access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers at all premises under the site's control.</i>	

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<b>3.6.1</b>	<i>Evidence of the site's provision of adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite shall be identified and where applicable, quantified.</i>	 Yes
Comment	<p>Two documents were shared for this indicator - 1.3.8 access to WASH and WASH Facilities. The following were provided onsite - these were also validated at the time of audit:</p> <ul style="list-style-type: none"> <li>- male toilets: 6</li> <li>- female toilets: 6</li> <li>- male urinals: 6</li> <li>- unisex toilets: 1</li> <li>- female restroom sinks with hand soap and hand towel supplied: 8</li> <li>- male restroom sinks with hand soap supplied: 8</li> <li>- Other handwashing stations with hand soap: 5</li> <li>- female showers: 3</li> <li>- male showers: 4</li> </ul>	
<b>3.6.2</b>	<i>Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.</i>	 Yes
Comment	<p>One document was shared for this indicator stating that the site is not impinging on the human right to safe water and sanitation of communities through their operations. Access to WASH is established within the site for employees, contractors, and visitors. The community is not affected by the site's operations as the water source of the site is supplied by the SIWA, in addition, indigenous peoples are living approximately more than 20 km away from the industrial park of Ranadi.</p>	
<b>3.7</b>	<i>Implement plan to maintain or improve indirect water use within the catchment:</i>	
<b>3.7.1</b>	<i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i>	 No
Comment	<p>The documents shared for this indicator are irrelevant as there were no linkages found for indicator 1.4.1.</p> <p style="text-align: right;"><b>Finding No: TNR-007127</b></p>	
<b>3.7.2</b>	<i>Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.</i>	 No
Comment	<p>The pieces of evidence of engagement shared were that of the Ministry of Fisheries &amp; Marine Resources; Solomon Water; Lunga Farm Co. Limited; and Solomon Islands Water Authority (service provider).</p> <p>There was no evidence of engagement with suppliers of primary inputs (overseas). In addition, there was no filled-out SIWA Questionnaire was shared.</p> <p style="text-align: right;"><b>Finding No: TNR-007129</b></p>	
<b>3.8</b>	<i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i>	
<b>3.8.1</b>	<i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i>	 Yes
Comment	<p>Based on the shared documents and validated during the time of the audit, all water-related infrastructures belong to the site. Only the pipes and water meter of incoming water belong to SIWA wherein risk of damage was identified as the source of water-related emergency and engagement with stakeholders was conducted.</p>	

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<b>3.9</b>	<i>Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.</i>	
<b>3.9.1</b>	<i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i>	Q Obs.
Comment	The status of actions towards achieving best practices related to water governance is still ongoing with approved CAPEX and a target of completion in Q4 of 2023 for wastewater recycling. The current status can be documented for better monitoring and its linkage to indicator 1.8.1 can also be established.	
<b>3.9.2</b>	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	Q Obs.
Comment	The status of actions towards achieving best practices related to water balance is still ongoing with approved CAPEX and a target of completion in Q4 of 2023 for wastewater recycling. The current status can be documented for better monitoring and its linkage to indicator 1.8.2 can also be established.	
<b>3.9.3</b>	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	Q Obs.
Comment	The status of actions towards achieving best practices related to water quality is still ongoing with approved CAPEX and a target of completion in Q4 of 2023 for wastewater recycling. The current status can be documented for better monitoring and its linkage to indicator 1.8.3 can also be established.	
<b>3.9.4</b>	<i>Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.</i>	✓ Yes
Comment	The site has no IWRA identified in indicator 1.3.6 onsite. However, the best practice for IWRAs at the catchment level is described in Water Stewardship Plan item# 5 wherein SIWA and BAT SITCO are responsible for the tree planting project.	
<b>3.9.5</b>	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	✓ Yes
Comment	The refurbishment of the Factory Washroom was part of the prioritized CAPEX for year 2023.	

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4	STEP 4: EVALUATE - Evaluate the site's performance.	
4.1	<i>Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes.</i>	
4.1.1	<i>Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.</i>	 No
Comment	AWS Stewardship Strategic Plan submitted has no evaluation at the time of audit. The attached documents are the evaluation of stakeholder engagement; and the evaluation of site performance (not directly the Water Stewardship Plan). Another document is the AWS Water Stewardship Strategic Plan which can't be linked to the Water Stewardship Plan (2.3.2). <b>Finding No: TNR-007141</b>	
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>	 Obs.
Comment	The document shared for this indicator can't be directly linked to the Water Stewardship Plan in indicator 2.3.2. The evaluation was independently done for rainwater harvesting, metering, project splash, WASH refurbishments, and pipe works.	
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>	 Obs.
Comment	The documents shared for this indicator contain shared value benefits in the catchment described in the column Cost/ benefits of AWS Water Stewardship Plan. However, this document is different from that of indicator 2.3.2.	
4.2	<i>Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.</i>	
4.2.1	<i>A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.</i>	 Obs.
Comment	The documents shared for this indicator indicate that there were no water-related emergency incidents. However, the recording can be improved by indicating when the review was done and who were the participants in the review.	
4.3	<i>Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.</i>	
4.3.1	<i>Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.</i>	 Obs.
Comment	Several documents were shared for this indicator. Though it's understood that the site has yet to disclose its water stewardship performance based on the achievement of its water stewardship plan; several stakeholders were engaged and their respective feedback was sought relative to the queries of the site - not related to the site's water stewardship performance.	
4.4	<i>Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.</i>	

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4.4.1	<i>The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.</i>	<div><div></div><div>No</div></div>
Comment	Based on the shared documents both for site and catchment Water Stewardship Plans, there is no indicator that the documents can be traced as their initial inception, review, and latest updates. The person in charge was not likewise described including the person who reviewed/checked and approved the plan.	
		<b>Finding No: TNR-007147</b>



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5	STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's stewardship efforts	
5.1	Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.	
5.1.1	The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.	 No
Comment	The site's AWS Governance Structure was shared as attached but there's no clear evidence that this has been disclosed to relevant stakeholders, not even on the site's Notice Board. <b>Finding No: TNR-007151</b>	
5.2	Communicate the water stewardship plan with relevant stakeholders.	
5.2.1	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.	 No
Comment	There is no shared evidence that the water stewardship plan was communicated to the relevant stakeholders, though photos were available for the engagements. <b>Finding No: TNR-007737</b>	
5.3	Disclose annual site water stewardship summary, including: the relevant information about the site's annual water stewardship performance and results against the site's targets.	
5.3.1	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.	 No
Comment	There was no evidence that the site's water stewardship performance was summarized, quantified against the targets (2.3.2), and disclosed, though stakeholders' engagements were evident. AWS Water Stewardship Strategic Plan was shared for this indicator and the photos of engagements among the site's relevant stakeholders. <b>Finding No: TNR-007150</b>	
5.4	Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.	
5.4.1	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.	 No
Comment	The site's AWS Signed Policy and Stakeholders' engagements and announcements were shared for this indicator. However, there's no clear evidence of the disclosure of water-related challenges and efforts made to address these challenges. <b>Finding No: TNR-007152</b>	
5.4.2	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.	 Yes
Comment	The documents shared for this indicator showed that the site engaged stakeholders and coordinated and supported public-sector agencies.	
5.5	Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.	



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5.5.1	Any site water-related compliance violations and associated corrections shall be disclosed.	 Obs.
Comment	Based on the S&I review from Jan 2023 up to Jun 2023, there were no water-related compliance violations reported. Recording of monthly meetings can be considered for timely updates.	
5.5.2	Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.	 Yes
Comment	Based on the S&I review from Jan 2023 up to Jun 2023, there were no water-related compliance violations reported as of the time of the audit. The corrective action process is in place and the form is already established.	
5.5.3	Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.	 No
Comment	The disclosure of water-related violations that may pose significant risks and threats to human or ecosystem health was not yet included in the document shared.	

Finding No: TNR-007153

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### Photographic Evidence from Audit

✔

Yes

**Comment**      The photographic pieces of evidence attached herein are those selected to be of significance to this on-site audit of BAT SITCO. These include the Solomon Islands Water Authority (SIWA) water meter where incoming water is measured, the site's water-related infrastructures - the visible piping, the water storage tanks, the waste-water treatment tank, the rainwater meter, the discharge point, and the water source - Kongulai River water intake as part of the catchment tour.



Men's washroom at factory building.jpg

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Marketing Building Kitchen3.jpg

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Admin Bldg main kitchen4.jpg

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Ranadi seashore - discharge point 200 meters out.jpg

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Water meter for rainwater.jpg

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SIWA Meter.jpg



Secondary effluent tank-8000L.jpg



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Sump pit.jpg



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Marketing Building Kitchen4.jpg

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Effluent discharge meter (for repair).jpg



Water discharge point.jpg

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Men's washroom at factory building2.jpg

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Marketing Building Kitchen.jpg



Rainwater filters.jpg

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Admin Bldg main kitchen3.jpg

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Men's washroom at factory building3.jpg

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SIWA Meter1.jpg



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Kongulai water source1.jpg



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Water discharge pipe.jpg

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Primary effluent treatment tank.jpg

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Marketing Building Kitchen2.jpg

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Men's washroom at factory building4.jpg

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Admin Bldg main kitchen.jpg

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Admin Bldg main kitchen5.jpg

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Chlorine dosing pump.jpg



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Sump pit2.jpg



# CERTIFICATION REPORT

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Admin Bldg main kitchen2.jpg

# CERTIFICATION REPORT

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Effluent treatment panel.jpg