

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-001294

SITE DETAILS

Site: **Samsung Electronics Vietnam Co, Ltd (SEV)**
Address: Yen Phong 1 Industrial Zone, Yen Trung Commune, Yen Phong District, 220000, Bac Ninh, VIETNAM
Contact Person: Nguyen Van Duyet
AWS Reference Number: AWS-000748
Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Platinum
Date of certification decision: 2024-Dec-16
Validity of certificate: 2027-Dec-15

AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)
Audit Type(s): Initial Audit
Audit Start Date: 2024-Sep-10
Audit End Date: 2024-Sep-13
Lead Auditor: Amit Singh
Audit team participants:
Dung Tri Ngo
Van Bich Nguyen

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Site Participants:

Choong Hyun Lim, Other
Yong Gyu OH, Other
Nguyen Tien Duc, Other
Nguyen Xuan Dung, Other
Le Dinh Mung, Other
Nguyen Trang Nhung, Other
Park Kang Bin, Other
Do Thi Ninh, Other
Seo Byung Wook, Other
Lee Chang Hwan, Other
Phan Thanh Do, Other
Pham Tuan Ha, Other
Nguyen Van Tien, Other
Tran Khai Hoan, Other
Tran Hong Hoang, Other
Nguyen Van Duyet, Other
Yeun Hee Kim, Consultant
Jae Hyun Baik, Consultant

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ADDITIONAL INFO

Summary of Audit Findings: A total of 23 findings were raised during the certification audit, 0 major non-conformities, 9 minor non-conformities, 14 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 30 days of receipt of the audit report by 6 December 2024.

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

The audit team recommends certification of Samsung Electronics Việt Nam (SEV) at Platinum level pending approval of the corrective actions plan and closure of the major non-conformities.

CLOSURE OF FINDINGS AND CORRECTIVE ACTION PLAN:

The Client has successfully submitted the corrective action plans addressing all findings. Proof of implementation has been requested for the Minors and this will be evaluated during the Surveillance Audit. The client is requested to upload evidence of implementation prior to the Surveillance Audit.

Scope of Assessment: The scope of services covers the Initial certification audit for assessing the conformity of Samsung Electronics Việt Nam (SEV) site against the AWS International Water Stewardship Standard Version 2.

Samsung Electronics Việt Nam (SEV) site manufactures electronic products and accessories at the Yen Phong I Industrial, Yen Trung Commune, Yen Phong District, Bac Ninh Province, 16000, Vietnam. It is situated downstream of the Cau River catchment. The site is around 40kms away from the capital city of Hanoi. The nearest airport to site is Noi Bai International Airport which is 29 kms from site.

The site receives its water from Viglacera Water Treatment Plant. The quantity of water is monitored through three installed water flow meters. The water-related areas, including the water storage tank, utilities (Boiler, cooling towers, etc.), Chemical store, Fish pond and SEV Fountain (on-site IWRAs), and wastewater treatment plant, were included in the assessment and visited onsite as part of the audit.

The audit was conducted onsite from 10th to 13th September 2024.

SCORE

110.00

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	14
Minor	9

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FINDING DETAILS

Finding No:	TNR-013516
Checklist Item No:	1.2.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-10
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">- 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.
Findings:	<p>There is no evidence of the site identifying the stakeholder/stakeholder groups covering vulnerable, women, minority, and Indigenous people.</p>
Corrective action:	<p>1. We will additionally identify stakeholders representing vulnerable group, women, minority, and Indigenous group within the catchment to ensure that the views of these groups are fully reflected.</p> <p>2. Strengthen communication and identify relevant parties including: Department of Labor, War Invalids and Social Affairs, Women's Union, Department of Natural Resources and Environment of Bac Ninh province, and Department of Agriculture of Bac Ninh province</p>
Finding No:	TNR-012291
Checklist Item No:	1.2.2
Status:	Open
Finding level:	Observation
Checklist item:	<p>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.</p>
Findings:	<p>The degree of influence between site and stakeholder have not been correctly identified for all of the stakeholders, e.g. the level of influence of site on partner companies (suppliers / service providers) have been identified as low but the influence of stakeholder has been identified as high which does not seem to be the case.</p>

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Finding No: TNR-013988
Checklist Item No: 1.3.1
Status: Open
Finding level: Observation
Checklist item: Existing water-related incident response plans shall be identified.
Findings: Not all existing water-related incidents have been identified on the same list.

Finding No: TNR-013517
Checklist Item No: 1.3.2
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Sep-10
Checklist item: Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped
Findings: The site has not captured the storage of fresh water, treated water and treated wastewater within the site.
Corrective action: 1. We will reevaluate the location and storage capacity of raw water, treated water, and wastewater tanks on the site, and update these values in the site water balance mapping data.

Finding No: TNR-013550
Checklist Item No: 1.3.3
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Sep-10
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: There is a gap 1755 m3 in total water sourced from the Purification plant compared to the water consumption at different sections of the plant. The evaporation losses at cooling tower and losses at boiler are estimated to be the same throughout the year which is not possible. The evaporation loss from cooling tower will be different for different across different climatic conditions observed during the year.
Corrective action: 1. According to AWS Guidance, a maximum margin of error of 5% for inflows and outflows is allowed, but we will reduce this error to better understand the water balance within the site.

2. When estimating evaporation loss for cooling towers and boilers, we will redistribute it by considering monthly water usage.

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Finding No:	TNR-013989
Checklist Item No:	1.3.4
Status:	Open
Finding level:	Observation
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:	Although the related parameters are being monitored, the variance illustration is not done properly.
Finding No:	TNR-013592
Checklist Item No:	1.3.5
Status:	Open
Finding level:	Observation
Checklist item:	Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.
Findings:	It has been determined that the shared data is not up to date.
Finding No:	TNR-013594
Checklist Item No:	1.4.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-10
Checklist item:	The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.
Findings:	Site has not captured water consumption of outsourced services such as transport services for movement of goods and raw materials, etc. The estimated data for vehicle washing does not seem to be realistic with respect to the details of vehicles presented by site.
Corrective action:	<ol style="list-style-type: none">1. We plan to incorporate data from our internally managed transportation vehicle logs to estimate the water use associated with outsourced services for transportation of products and raw materials in the catchment, and will request car wash information from the contractor to estimate the exact water use of outsourced services.2. For calculating water usage for vehicle washing, internationally or academically established standards will be applied.

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Finding No:	TNR-013596
Checklist Item No:	1.5.1
Status:	Open
Finding level:	Observation
Checklist item:	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.
Findings:	Site has identified various public policies and initiatives but have not identified the possible opportunities for water stewardship collective action.

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Finding No:	TNR-013598
Checklist Item No:	1.5.3
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-10
Checklist item:	The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.
Findings:	<p>Site has not presented the catchment water balance, only partial data related to water flow in CAU river is captured.</p> <p>As the catchment water balance is incomplete, site is not able to assess whether it is positive or negative, or if there is and a level of scarcity.</p>
Corrective action:	<p>1. We plan to send official dispatches and consult directly with the following relevant management agencies to collect catchment water balance data.</p> <ul style="list-style-type: none">- Department of Natural Resources and Environment of Bac Ninh province- Department of Agriculture of Bac Ninh province

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Evidence of implementation:

1. SEV directly contacted the following institutions to collect water balance data for the Cau River catchment:
 - 1) Law Library
 - 2) Department of Natural Resources and Environment
 - 3) People's Committee of Bac Ninh Province
 - 4) Department of Agriculture and Rural Development
 - 5) Department of Hydrology and Meteorology
2. The following responses were received from the institutions:
 - 1) Law Library
 - Unable to share data as it does not possess water balance data for the Cau River catchment.
 - 2) Department of Natural Resources and Environment
 - Referenced the 2019 Bac Ninh Province Surface Water Resources Survey and Assessment Project report to provide general information on the Cau River (catchment length, water usage data) and the average total flow figures from 1980 to 2017.
 - Informed that the full report of the assessment project cannot be shared.
 - 3) People's Committee of Bac Ninh Province
 - Issued an official letter requesting the Department of Natural Resources and Environment to provide support regarding the SEV site.
 - 4) Department of Agriculture and Rural Development
 - Recommended SEV contact the Thai Nguyen Hydrometeorological Station to request data, as the Bac Ninh Province Hydrometeorological Station, located downstream, does not have relevant data. (The data held by the Thai Nguyen Hydrometeorological Station is the same as the data presented during the previous on-site audit.)
 - 5) Department of Hydrology and Meteorology
 - Provided flow measurement data from one observation station (Gia Bay) in Thai Nguyen Province, previously submitted during the last audit
 - Shared annual rainfall data from four observation stations.
 - Informed that they do not possess inflow and outflow data for the entire basin, making data sharing impossible.
3. Based on the responses and data received, internal discussions concluded that it is not feasible to construct complete water balance data for the entire basin. This issue was previously highlighted during the on-site audit, but it appears that the difficulty in data collection was not accepted. Therefore, we formally request a reconsideration of the nonconformity rating assigned to this indicator.

Finding No:	TNR-013990
Checklist Item No:	1.5.7
Status:	Open
Finding level:	Observation
Checklist item:	The adequacy of available WASH services within the catchment shall be identified.
Findings:	There has been no discussion with the stakeholders to identify and evaluate the adequacy of available WASH services within the catchment

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Finding No: TNR-013603
Checklist Item No: 1.6.2
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Sep-10
Checklist item: Initiatives to address shared water challenges shall be identified.
Findings: The identified initiatives are limited to initiatives taken up by the site and does not include any initiatives taken up by other stakeholders in the catchment.
Corrective action: 1. In addition to the initiatives conducted within the site, we will add the initiatives of other stakeholders in the catchment, such as
- Cau River Protection Committee: managing Cau River water quality
- Provincial People's Committee and local government: Strengthen inspection and reinforcement of dykes during storm and flood season
- Viglacera Clean Water Company: Establishing a corridor to protect water sources and ensuring clean water output before supplying to the SEV plant
- Provincial People's Committee: remove hot spots of environmental pollution

Finding No: TNR-013605
Checklist Item No: 1.7.1
Status: Open
Finding level: Observation
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 timeframe definition and methodology should be reviewed. Additionally, the severity rating should be reassessed.

Finding No: TNR-013615
Checklist Item No: 1.7.2
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Sep-10
Checklist item: Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.
Findings: The identified water related opportunities are only limited to site. There is no identification of opportunities in which the site can participate.
Corrective action: 1. We plan to consult with the following organizations to identify opportunities for engagement outside of the site, in addition to activities within the site.
- Bac Ninh Department of Natural Resources and Environment
- Cau River Protection Committee

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Finding No: TNR-013616
Checklist Item No: 1.8.2
Status: Open
Finding level: Observation
Checklist item: Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.
Findings: There are no water balance best practices identified for the relevant sector.

Finding No: TNR-013617
Checklist Item No: 1.8.3
Status: Open
Finding level: Observation
Checklist item: Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.
Findings: There are no water quality best practices identified for the relevant sector.

Finding No: TNR-013618
Checklist Item No: 1.8.5
Status: Open
Finding level: Observation
Checklist item: Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.
Findings: There are no WASH related best practices identified for the relevant sector or other industries.

Finding No: TNR-013623
Checklist Item No: 2.3.2
Status: Open
Finding level: Observation
Checklist item: A water stewardship plan shall be identified, including for each target:
- How it will be measured and monitored
- Actions to achieve and maintain (or exceed) it
- Planned timeframes to achieve it
- Financial budgets allocated for actions
- Positions of persons responsible for actions and achieving targets
- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.
Findings: Site has tabulated in a column about how the targets will be measured and monitored, but it does not provided clarity about monitoring of same. There are a no. of targets which are regular monitoring activities and already in place. These identified targets does not have clear resemblance as to which AWS outcomes is improved from this.

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Finding No:	TNR-013625
Checklist Item No:	2.4.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-10
Checklist item:	A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.
Findings:	Site has mentioned that it had developed a plan to mitigate identified water risks. But, there is no evidence of development of plan in co-ordination with relevant public-sector and infrastructure agencies to mitigate all the identified risks.
Corrective action:	1. We plan to develop a draft of water risk mitigation plan with the management board of Viglacera industrial park
Finding No:	TNR-013657
Checklist Item No:	3.7.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-10
Checklist item:	Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.
Findings:	Site has set target of training for major suppliers & service providers but there is no linkage with the indirect water use of site.
Corrective action:	1. We plan to set reduction targets for indirect water use by contractors. - Target: Reduction of 25,000 tons of indirect water use by 2025. - Update results periodically
Finding No:	TNR-013664
Checklist Item No:	3.9.2
Status:	Open
Finding level:	Observation
Checklist item:	Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.
Findings:	There are other water balance related actions that the site has implemented but there are no implemented actions linked to the identified best practices.

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Finding No:	TNR-013673
Checklist Item No:	4.1.1
Status:	Open
Finding level:	Observation
Checklist item:	Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.
Findings:	There are a number of actions for various targets which are regular maintenance activities and already in place. These identified actions do not have clear resemblance as to which AWS outcomes are improved from them and need not be part of WS plan.
Finding No:	TNR-013677
Checklist Item No:	4.4.1
Status:	Open
Finding level:	Observation
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:	The site should explore other methods of engagement with stakeholders for attaining their feedback and suggestions so as to incorporate the relevant ones in the water stewardship plan for collaborative action.

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Report Details

Report	Value
Report prepared by	Amit Singh
Report approved by	Ozge GOKMEN
Report approved on (Date)	5/11/2024

Surveillance

Proposed date for next audit	2025-Sep-09
Comment	The proposed date for first Surveillance Audit is 09/09/2025.

Stakeholder Announcements

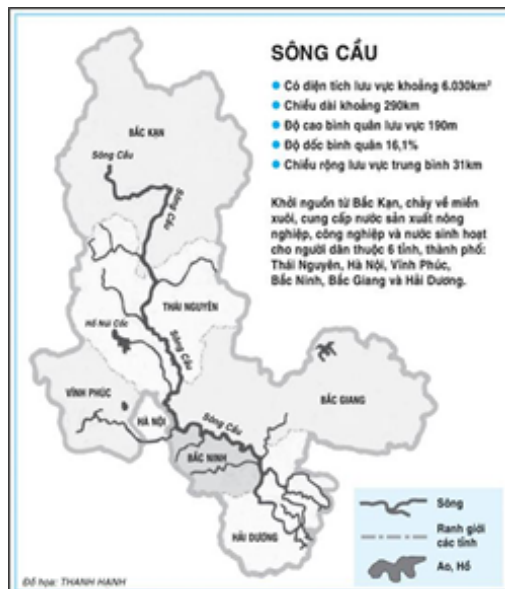
Date of publication	Location
	AWS website
	WSAS website
26/07/2024	Samsung Vietnam website
Comment	<p>The link for publication of the Stakeholder Announcement at AWS website is: https://a4ws.org/wp-content/uploads/2024/07/AWS-000748-Samsung-Vietnam-SEV-StakeAnn-R1.pdf</p> <p>The link for publication of the Stakeholder Announcement at WSAS website is: https://a4ws.org/wp-content/uploads/2024/07/AWS-000748-Samsung-Vietnam-SEV-StakeAnn-R1.pdf</p> <p>The link for publication of the Stakeholder Announcement at Samsung Vietnam website is: https://news.samsung.com/vn/sev-va-sevt-thong-bao-ke-hoach-danh-gia-chung-nhan-lien-minh-quan-tri-nuoc-aws</p> <p>Site has also displayed the stakeholder announcement at the plant entrance.</p>

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Catchment Information



Cau river catchment.png

Catchment Information

The site is located in Yen Phong District, Bac Ninh Province, Vietnam, and is situated at the Cau River catchment.

The SEV site receives its water through Viglacera Water Purification Plant which sources water from the intake point at Lương Tân intake station located upstream of Cau river). The wastewater from the site is treated at a wastewater treatment plant located within the plant and then sent to the Viglacera Sewage Treatment Plant, which serves as the public sewage treatment facility for the industrial complex. The final treated wastewater is then discharged into a nearby stream in the industrial complex area which finally merges with the Cau River at the Vạn An region.

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Client Description and Site Details



Site boundaries.png



Site.png

Client/Site Background

Samsung Electronics Vietnam (SEV) site is located at Yen Phong I Industrial Park, Yen Trung Commune, Yen Phong District, Bac Ninh Province, 16000, Vietnam. It is situated downstream of the Cau River catchment. The catchment area for the site is Cau River catchment as the site's intake point (Lương Tân) is upstream and the final discharge point (Vạn An) lies along the downstream section of the Cau River.

The site receives City water from Viglacera treatment plant and discharges treated wastewater to Viglacera Wastewater treatment plant which is then discharged to the Cau River stream.

Summary of Shared Water Challenges

Summary of Shared Water Challenges

Site has carried out survey with stakeholders to identify the shared water challenges. The identified shared water challenges are listed below:

- Water pollution in water sources
- Water pollution (wastewater)
- Lack of communication and cooperation between government/regulatory agencies, businesses, and civic groups
- Drought and water shortage risk
- Destruction of aquatic ecosystems and decline in biodiversity
- Heavy Rain and Flood Risk
- Excessive water withdrawal
- Marginalized populations from safe and sustainable water supply
- WASH issues among vulnerable populations

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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	The site occupy one catchment i.e. Cau River catchment.
0.1.1.2	<i>The scope of the proposed certification shall be under the control of a single management system.</i>
Comment	The scope of the proposed certification is under the control of a single management system.
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	The Site production system is homogeneous.

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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 Samsung Electronics Vietnam (SEV) site is located at Yen Phong I Industrial Park, Yen Trung Commune, Yen Phong District, Bac Ninh Province, Vietnam. The site boundaries have been defined and presented in the supporting evidence.

Site water-related infrastructure is mapped and consists of water intake from Viglacera purification plant, water storage tanks, utilities, SEV Fountain (onsite IWRA's), wastewater treatment plant, etc.

The site receives municipal water from Viglacera purification plant. It is sourced from the Lương Tân intake station in the Cau River, purified at the Viglacera Water Purification Plant, and then delivered to the site. Water is used for process water - such as cooling towers and boiler facilities; domestic water - such as drinking water and restrooms, and firefighting and landscaping.

Wastewater generated from the site operations is processed at an internal wastewater treatment facility and then sent to the Viglacera Sewage Treatment Plant, which serves as the public sewage treatment facility for the industrial complex. The treated wastewater is then discharged into a nearby stream in the industrial complex area which merges with the Cau River at the Vạn An region.

The catchment area for the site is Cau River catchment as the site's intake point (Lương Tân) is upstream and the final discharge point (Vạn An) lies along the downstream section of the Cau River.


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

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- 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.

 in progress

Comment The site has identified the stakeholders under the following categories - Employees, Government agencies, Regulatory authorities, Local residents, Civic groups, NGO's, partner & nearby companies and suppliers/service providers. The identified stakeholders were listed in an Excel sheet - Stakeholder Mapping.

A stakeholder survey was conducted involving the above stakeholder/stakeholder groups to enlist data including - how stakeholders are connected to the organization, water-related concerns or challenges faced by stakeholders, etc.

The Stakeholder Power, Interest, and Engagement Matrix was also created for the identified stakeholders.

Finding No: TNR-013516

- 1.2.2** *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.*

 Obs.

Comment Site has identified the stakeholders and tabulated the stakeholder matrix capturing the interest & influence of stakeholder on site and influence of site on stakeholder.

- 1.3** *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.*

- 1.3.1** *Existing water-related incident response plans shall be identified.*

 Obs.

Comment The site has identified SOP's for the following Water related incident scenarios:

- Process of Wastewater Pipe Breakage Accident Response
- Process of Waste and Oil Spill Response through Stormwater
- Process of Water Outage Response through Viglacera
- Process of PLC-Automatic Control System of Wastewater Treatment Plant Power Failure Accident Response

Each scenario specifies the action sequence, procedures, minimum necessary resources, time required, responsible department, and relevant department.

Listing the water-related incidents identified by the site in a document would be beneficial for assessing their completeness

In addition to the above, the site also has environmental pollution liability insurance to prepare for emergencies at sewage tanks, sludge tanks, wastewater tanks, and pump stations on the site.

- 1.3.2** *Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped*

 in progress


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Comment The site has mapped the tap water supplied by the Viglacera Water Purification Plant which is used in the CUB building, process buildings (A~K buildings, etc.), dormitories, firefighting, and landscaping. The wastewater from the process is treated at the wastewater treatment facility and then discharged through the Viglacera Sewage Treatment Plant into canals near the industrial complex.
The losses at cooling towers and boilers are also estimated.

Finding No: TNR-013517

1.3.3 *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.*  in progress

Comment Site has quantified the water inflow to site, water usage at different sections (including buildings, water losses at cooling tower & boiler, landscaping water, fountain, etc.). Total volumetric flow rates for year 2022, 2023 and 2024 (upto June) have been presented by site.

Finding No: TNR-013550

1.3.4 *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.*  Obs.


Comment The water quality of the water intake point (Lương Tân) is tested and monitored for parameters pH, COD, TSS, TN, TP. The water quality data of raw and treated water is shared by Viglacera water treatment plant and being monitored. The water quality analysis of drinking water and Coway water purifiers in the canteen is performed by an external company every month for measuring E.coli for City water from Viglacera purification plant and CoWay water for drinking within the plant. This is being monitored for more than 100 points.

Daily condition assessment of the stormwater drainage channels (around 10 in nos.) that discharge directly into the canal near the industrial park is being conducted at the site. The measurement parameters are TSS, visual pollution, odour, and pH.

The canal near the industrial park that joins the Cau river is monitored through quarterly water quality measurements. The measured parameters are pH, COD, TSS, TN, and TP.

The quality of the wastewater generated by the site is monitored on a monthly basis by site for treated wastewater for 18 parameters which is being compared with the legal standard and site specified standard (at 50% of the legally regulated concentration level). The SEV site is not obligated to install Tele-Monitoring Systems (TMS), however site has installed TMS at the outfall to monitor the quality of the discharged water for real time monitoring.





The SEV site monitors the water quality downstream of the discharge point through data on pollutant content in surface water published at government website.

1.3.5 *Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.*  Obs.

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Comment	<p>Potential sources of pollution have been identified and mapped for the following locations on a file named "Rules_for_chemical_safety_management".</p> <ul style="list-style-type: none"> - 4 nos. of Hazardous waste storage - 2 nos. of Waste Water Treatment Plant - 7 nos. of Oil tank - 2 nos. of Chemical warehouse - 6 Power generators - 10 UPS rooms <p>But the file date is for year 2015. Since 2015, there have been several changes in products and processes. Consequently, updates have also been made to the chemicals used.</p>	
1.3.6	<p><i>On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.</i></p>	 Yes
Comment	<p>Site has identified 2 nos. of IWRA's at site - 'pond' and 'fountain' as on-site IWRA. On a monthly basis, site takes photos of the pond and fountain and evaluate their conditions since March / April 2024.</p> <p>Site also analyses the water quality (for parameters pH, COD, TSS, TN, and TP) of the pond and fountain through external contractors to assess contamination.</p> <p>The condition of Fish pond has been identified as excellent and that of Fountain is assessed to be in good condition.</p>	
1.3.7	<p><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></p>	 Yes
Comment	<p>The water-related costs have been identified by site and include the following:</p> <ul style="list-style-type: none"> - Water supply costs - Water purifier rental costs - Water-related capital expenditures and repairs - Wastewater treatment discharge costs - Chemical purchase and operating costs for Wastewater treatment plants - Water quality measurement by outsourced agencies <p>The site does not generate any revenue from the sale of water.</p> <p>SEV site has listed the activities through which it has created social value, cultural value, environmental value and economic value.</p>	
1.3.8	<p><i>Levels of access and adequacy of WASH at the site shall be identified.</i></p>	 Yes
Comment	<p>The site has listed the WASH facilities such as Toilets, Lavatories, Urinals, Washbasins, Restrooms and Shower rooms at different sections of the site which indicates that the site provides adequate access to safe and clean water, sanitation, and hygiene facilities for all employees and visitors.</p> <p>The site has also compared the actual WASH facilities at the site with the WASH facilities as per legal requirements.</p>	
1.4	<p><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></p>	
1.4.1	<p><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></p>	 Yes

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Comment	<p>The site has engaged with the primary input suppliers via email by sharing the site's water risks and water stewardship initiatives and has asked for water-related data from the suppliers.</p> <p>The data received from suppliers within the catchment and outside the catchment have been tabulated in a Excel sheet.</p> <p>In addition to the above, the site has also presented data for all the suppliers (for more than 1% of the purchase ratio) for the group and not only for the site.</p>	
1.4.2	<p><i>The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.</i></p>	 in progress
Comment	<p>The site has presented water consumption data for employee transport services (including business vehicles and commuting buses for employees). The water consumption is estimated based on some document which states 200 - 300 ltr. of water for small cars and 300 - 500 ltr. for large cars.</p> <p>In addition to the above site has also shared data on the water consumption of resident partners (in house service providers. There is no other data provided for the indicator.</p>	<p>Finding No: TNR-013594</p>
1.4.3	<p><i>Advanced Indicator</i></p> <p><i>The embedded water use of primary inputs in catchment(s) of origin shall be quantified.</i></p>	 Yes
Comment	<p>Site has engaged with the primary input suppliers (covering supplier within the catchment and also outside the catchment, i.e. catchment of origin) via email by sharing site's water risks and water stewardship initiatives and had asked for water related data from the suppliers.</p> <p>The data received from suppliers have been tabulated in a excel sheet.</p> <p>In addition to above, site has also presented data for all the suppliers (which are 2 in nos. for more than 1% of purchase ratio) for the group as a whole and not only for the site.</p>	
Score	7	
1.5	<p><i>Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH</i></p>	
1.5.1	<p><i>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.</i></p>	 Obs.
Comment	<p>Site has identified and tabulated various Water-related public policies and major public led initiatives alongwith their respective Purpose, relevant goal, brief explanation linking with possible AWS outcomes and possible impact.</p>	
1.5.2	<p><i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i></p>	 Yes
Comment	<p>The site has identified and listed the Water-related laws which the site is complying with :</p> <ul style="list-style-type: none"> - National technical standards for surface water - National Technical Standards for Industrial Wastewater - National Technical Standards for Drinking Water - National Technical Regulations for Natural Mineral Water and Bottled Drinking Water (SEV uses QC craving with drinking water directly at water plants) - Decree on Drainage and Wastewater Treatment - Regulation of Environmental Protection Fees for Wastewater <p>The SEV site has a water supply and wastewater treatment contract with Viglacera treatment facility. There are no restrictions on the amount of water supply, based on the quantity of water and wastewater the charges are being paid.</p> <p>The site needs to maintain the quality of treated wastewater within the legal norms before discharging it to the Viglacera Wastewater treatment facility.</p>	

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1.5.3	<i>The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.</i>	 in progress
Comment	<p>The site has gathered information for the average daily water flow rate in CAU river for year 2022 and 2023. The source of data is Thai Nguyen Province Hydrometeorological Station (Gia Bay Station). Based on this information, the site has estimated the daily water flow in CAU river for year 2022 and 2023.</p> <p>In addition to the above, the site has presented water quality data for the content of substances in the surface water. However, this data is not relevant to the indicator.</p> <p>Finding No: TNR-013598</p>	
1.5.4	<i>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.</i>	 Yes
Comment	<p>The site has gathered information related to data on pollutant concentrations in surface water published by the Ministry of Natural Resources and Environment. The data includes annual average pollutant concentrations for the Cau River at various measurement points for the years 2021, 2022, and 2023. The measured parameters are DO, COD, BOD, NO3-, NH4+, PO43-, Coliform, As, Pb, and Hg.</p> <p>The site has gathered data related to monthly water quality measurements conducted to monitor the discharge point of treated water from the Viglacera Wastewater Treatment Plant into the canal near the industrial complex. The measurement parameters include pH, COD, TSS, TN, and TP.</p> <p>The water quality at the confluence of the canal near the industrial complex with the Cau River is monitored through monthly measurements. The measurement parameters include pH, COD, TSS, TN, and TP.</p>	
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>Site has identified 4 nos. of IWRA's at catchment:</p> <ul style="list-style-type: none"> - Industrial complex canal - Initial intake point of Cau River (Lương Tân) - Discharge point of the industrial complex sewage treatment plant - Final confluence of the Cau River (Van An) <p>The site analyzes the water quality of Off-site IWRA's monthly through external contractors to detect any pollution. External contractors analyze the water quality for parameters such as pH, COD, TSS, TN, and TP and provide the water quality data.</p> <p>Site has also assessed the condition of these IWRA'S and mentioned as - Acceptable condition but would benefit from improvement.</p>	
1.5.6	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 Yes

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Comment	<p>Site has identified the following infrastructure:</p> <ul style="list-style-type: none"> - Luong Tan water intake point - Viglacera Water Purification Plant - Viglacera Wastewater Treatment Plant <p>Site has mentioned that they had collected information on water supply and wastewater treatment facilities in Bac Ninh Province, as well as the comprehensive plan for water infrastructure in Bac Ninh Province for future.</p> <p>Site has provided evidence related to Safe water supply plan of Viglacera dt. Jan'24.</p> <p>Construction investment and infrastructure business of Yen Phong I industrial complex of Viglacera Infrastructure Development Investment Company</p> <p>Site has mentioned that it has used WRI Aqueduct tool to assess baseline and future water risks for site's key water-related infrastructure facilities. The identified risks would not be related to infrastructure facilities as these are for specific areas and not infrastructure facilities.</p>	
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Obs.
Comment	<p>Adequacy of available WASH services within the catchment identified based on government Statistical yearbook. There has been no discussion with the stakeholders to achieve confirmation on the same.</p> <p>Based on discussion with stakeholders, it was observed that there are some gaps in availability of WASH services in the catchment.</p> <p>It is mentioned that the considering industrial wastewater treatment system, only 16% are maintaining the environment standards.</p>	
1.5.8	<p><i>Advanced Indicator</i></p> <p><i>Efforts by the site to support and undertake catchment level water-related data collection shall be identified.</i></p>	 Yes
Comment	<p>SEV monitors water-related data published by the Environment department of Vietnam.</p> <p>SEV has shared water quality monitoring results with stakeholders via email on a quarterly basis and provided water quality information upon request to relevant parties such as suppliers and regulatory agencies. By sharing water-related data with stakeholders such as neighboring companies, suppliers, and government agencies, the site is able to inform them of the status of the surrounding water streams.</p>	
Score	6	
1.5.9	<p><i>Advanced Indicator</i></p> <p><i>The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified.</i></p>	 No
Comment	<p>At indicator 1.4.3, site has identified no. of primary inputs suppliers from different catchments. Site has referred to the statistical yearbook data published by Statistics Office, Vietnam for two of the suppliers which are within the same catchment and two outside the catchment. Site has gathered representative data of one of the overseas suppliers.</p> <p>There is no evidence of engagement of site with suppliers to gather information on the catchment level water related date to get representative data of the catchment and wherever there is a gap, activities could be planned for adequate WASH services.</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

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Comment	<p>The site has conducted an initial stakeholder survey involving employees, government and regulatory agencies, local residents and civic groups, nearby companies, etc. to identify water resource issues in the site's catchment. The site has identified the following shared water challenges and prioritized them on the basis of the same:</p> <ul style="list-style-type: none"> - Water pollution in water sources - Water pollution in wastewater - Lack of communication and cooperation between government/regulatory agencies, businesses, and civic groups - Drought and water shortage risk - Destruction of aquatic ecosystems and decline in biodiversity - Heavy Rain and Flood Risk - Excessive water withdrawal - Marginalized populations from safe and sustainable water supply - WASH issues among vulnerable populations 	
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 in progress
Comment	<p>The site has identified the initiatives to address shared water challenges.</p> <p>Finding No: TNR-013603</p>	
1.6.3	<p><i>Advanced Indicator</i></p> <p><i>Future water issues shall be identified, including anticipated impacts and trends</i></p>	 Yes
Comment	<p>Site has identified the following categories which would lead to future water issues:</p> <ul style="list-style-type: none"> - Water availability / scarcity due to Population change - Decreased risk of water scarcity due to Industry change - Likelihood of extreme weather events such as heavy rains, floods, and typhoons due to observed climate trends - High risk of climate-related events may pose a threat to water-related infrastructure 	
Score	3	
1.6.4	<p><i>Advanced Indicator</i></p> <p><i>Potential water-related social impacts from the site shall be identified, resulting in a social impact assessment with a particular focus on water.</i></p>	 No
Comment	Site has not identified potential water-related social impacts yet.	
1.7	<i>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.</i>	
1.7.1	<i>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.</i>	 Obs.

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Comment The severity of impact and likelihood of 18 water risk factors were assessed based on the results of a water risk survey involving public water-related organizations and the opinions from the site.

- 1) Water scarcity
- 2) Sudden infrastructure failure, such as breaks or leaks, leading to interruption of water supply
- 3) Contamination outbreak in water source or supply (e.g., from pollution in reservoirs or leaky pipework)
- 4) Inadequate access to water, sanitation, and hygiene services
- 5) Restriction of water supply due to extreme natural events (e.g. earthquakes, typhoons, freezing pipes and extreme cold)
- 6) Restriction of water supply due to drought
- 7) Restriction of water supply due to flood
- 8) Restriction of water supply due to Heavy precipitation
- 9) Poor water quality due to failure of public wastewater treatment system
- 10) Increasing water withdrawal charges
- 11) Sudden infrastructure failure, such as breaks or leaks, leading to interruption of water supply
- 12) Poor water quality due to failure of on-site wastewater treatment systems
- 13) Tightening regulations for discharge wastewater (amount and quality of discharge wastewater)
- 14) Violation of discharged standard of effluent
- 15) Water-related litigation
- 16) Negative media coverage
- 17) Increased negative communities feedback due to site's violations
- 18) Increased negative communities feedback that site has a negative impact on the water ecosystem

The risks were categorized into four groups: physical risks (general), physical risks (site), regulatory risks, and reputational risks. Prioritization of water risks was determined, along with their business and financial impact. Prioritization was classified into 'High', 'Medium-high', 'Medium', 'Medium-low', and 'Low'. Water risk factors with a priority rating of 'Medium' or higher were subject to the plan to address identified water risks.

The timeframe for each risk have been selected as either of the following:

"1-3 years"


"4-6 years"

"More than 6 years"

The site needs to recheck and define the possible timeframe for each risk as the selection seems to be impractical in some cases. For example, for Risk 16 - "Negative media coverage", the site has selected the timeframe as "More than 6 years". How has this timeframe been defined.

The severity has not been correctly defined. For example, for Risk 3 - the severity has been identified as Medium but if there is contamination in water source, the severity could be very high.

1.7.2 *Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.*

 in progress

Comment Site has identified the following water related opportunities

- 1) RO water reuse
- 2) AHU condensate water reuse
- 3) Reduction of site water usage
- 4) Proactively responding to regulatory changes through regular monitoring of proposals and revisions to water-related legislation






First three have been prioritised as high and fourth one as medium priority.

Finding No: TNR-013615

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1.8	<i>Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.</i>	
1.8.1	<i>Relevant catchment best practice for water governance shall be identified.</i>	 Yes
Comment	Site has identified water governance best practice of other industries and for catchment.	
1.8.2	<i>Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.</i>	 Obs.
Comment	Site has identified water balance best practice for catchment.	
1.8.3	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Obs.
Comment	Site has identified water quality best practice for catchment.	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	Site has identified best practice for maintenance of Important Water-Related Areas for catchment.	
1.8.5	<i>Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.</i>	 Obs.
Comment	Site has identified best practice for provision of WASH services for catchment.	

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2 STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	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.
2.1.1	<p>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</p> <ul style="list-style-type: none"> - That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - That the site implementation will be aligned to and in support of existing catchment sustainability plans - That the site's stakeholders will be engaged in an open and transparent way - That the site will allocate resources to implement the Standard.
Comment	Site has presented the commitment document covering the required commitments. The same was disclosed at company's website in June 2024 and is also displayed at plant entrance notice board.
2.1.2	<p>Advanced Indicator</p> <p>A statement that explicitly covers all requirements set out in Indicator 2.1.1 and is signed by the organization's senior-most executive or governance body and publicly disclosed shall be identified.</p>
Comment	<p>Site has identified the commitment letter being signed by the Corporate EVP / Head of subsidiary for SEV / SEVT site.</p> <p>The commitment is disclosed at company's website and the link for same is https://news.samsung.com/vn/aws-lien-minh-quan-tri-nuoc</p>
Score	1
2.2	Develop and document a process to achieve and maintain legal and regulatory compliance.
2.2.1	<p>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</p> <ul style="list-style-type: none"> - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies.
Comment	<p>Site has prepared an organisation chart (Water Resource Management Organization) with name of persons and responsibilities of person including the compliances with Water Regulations, Water resource management, Water quality and related issues.</p> <p>There is a defined process for submission to regulatory agencies and SEV site submits the required environmental protection report to the Environment department.</p>
2.3	Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.
2.3.1	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.
Comment	The site has defined the Samsung Electronics's mission, vision, and goals for all five AWS outcomes and established a water stewardship strategy accordingly.


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2.3.2	<p><i>A water stewardship plan shall be identified, including for each target:</i></p> <ul style="list-style-type: none"> - How it will be measured and monitored - Actions to achieve and maintain (or exceed) it - Planned timeframes to achieve it - Financial budgets allocated for actions - Positions of persons responsible for actions and achieving targets - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes. 	 Obs.
Comment	<p>The site has prepared a water stewardship plan and linked it with various AWS outcomes. The water stewardship plan covers actions to achieve the target (and in some cases to maintain the target); timeframes are defined for each target; financial budgets are allocated for relevant targets with positions of persons responsible to achieve target. There are targets that have links to the achievement of best practices.</p>	
2.3.3	<p><i>Advanced Indicator</i></p> <p><i>The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same organisational ownership) shall be identified and described.</i></p>	 Yes
Comment	<p>Site has performed water stewardship activities with other sites within the same catchment such as Environmental cleanup activities on 27 December 2023 alongwith other companies - SDIV & Viglacera.</p> <p>Apart from this, site also carries out cleanup activities, awareness among stakeholders, etc. with other companies in the catchment.</p>	
Score	4	
2.3.4	<p><i>Advanced Indicator</i></p> <p><i>The site's partnership/water stewardship activities with other sites in another catchment(s) (either under same corporate structure or with another corporate site) shall be identified.</i></p>	 No
Comment	<p>Site has identified the following water stewardship activities with other sites in another catchment:</p> <ul style="list-style-type: none"> - An educational trip to Samsung Electronics DX Gumi site to strengthen its capabilities in AWS certification response and internal water management during February 2024 - Visit to HONDA's Vinh Phuc factory to conduct a benchmarking activity to identify possible improvements to the internal water treatment facility during June 2024 - Visit of university students and teachers from Vietnam Agricultural Academy - Yamagata University, Japan to introduce the site's water activities and internal environmental facilities during February 2024 <p>There are no relevant water stewardship activities performed with other sites in another catchment.</p>	
2.3.5	<p><i>Advanced Indicator</i></p> <p><i>Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which stakeholders are involved shall be identified.</i></p>	 No
Comment	<p>The site has conducted a survey with stakeholders to inquire whether the site's activities outlined in the plan effectively contribute to AWS's five main outcomes. Consensus was received from stakeholders on the WS Plan. The site did not receive any comments/suggestions for improvement. The site should engage more with the stakeholders (explore efficient methods of engaging with stakeholders other than just sharing the survey form and seeking the response</p>	
2.4	<p><i>Demonstrate the site's responsiveness and resilience to respond to water risks</i></p>	

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2.4.1 *A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.*  in progress

Comment Site has presented a document with the actions to address the identified 18 water risks.
Finding No: TNR-013625






2.4.2 *Advanced Indicator*
A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.  No

Comment Site has mentioned that it had conducted a climate change-related water risk list and response plan validation with a water-related expert. The expert provided positive feedback that the site's water-related risk and response plan within the water risk list is complete and very realistic. The mentioned document in the form of report - "Results of consultation with environmental experts about AWS report" is attached.
As per the requirement of the indicator, there is no evidence of development of plan in co-ordination with relevant public-sector and infrastructure agencies to mitigate or adapt to water risks associated with climate change projections.

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3	STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts	
3.1	<i>Implement plan to participate positively in catchment governance.</i>	
3.1.1	<i>Evidence that the site has supported good catchment governance shall be identified.</i>	 Yes
Comment	<p>The site is part of Environmental Protection Council around the YEN PHONG INDUSTRIAL PARK which constitutes of SEV, SDV, SDIV, Viglacra, and Commune of Long Chau, Dong Tien, and Yen Trung.</p> <p>Site also shares the water related information at bulletin boards.</p> <p>Site is involved in following activities with other industries / authorities in the catchment:</p> <ul style="list-style-type: none"> - Cleaning activities - Awareness campaign - No garbage dumping campaign - Water Saving / Management Training / Awareness session for school children - Exchange of information about the environment and water sources 	
3.1.2	<i>Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.</i>	 Yes
Comment	<p>The site has declared information about opening of restroom at the site as an open toilet to support the improvement of WASH services for stakeholders in the catchment, including local residents.</p> <p>In March 2024, on the celebration of World Water Day, site in cooperation with the People's Committee of Long Chau Bac Ninh District, provided 767,200 ml of drinking water to 1,096 students of Long Chau Elementary School in the catchment.</p> <p>The above shows that the site supports and respect the water rights of others.</p>	
3.1.3	<i>Advanced Indicator Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified.</i>	 Yes
Comment	<p>The site improved its internal water governance capabilities by establishment of AWS Task Force team. The TF team is composed of members from the EHS and Infra groups to support internal water management and catchment activities.</p>	
Score	2	
3.1.4	<i>Advanced Indicator Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water governance of the catchment shall be identified.</i>	 Yes
Comment	<p>The site prepared and shared the AWS Outcomes evaluation, which includes information on water management performance, with stakeholders such as employees, government and regulatory agencies, local residents and civic groups, partners, and nearby companies.</p> <p>The above was shared in the form of survey and received consensus from stakeholders that the site is seen as positively contributing to the good water governance.</p>	
Score	2	
3.2	<i>Implement system to comply with water-related legal and regulatory requirements and respect water rights.</i>	
3.2.1	<i>A process to verify full legal and regulatory compliance shall be implemented.</i>	 Yes

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Comment	Site has implemented a defined process to verify all legal and regulatory compliances. Site's Environmental Legal Register consists of the water-related laws and regulations which the site is required to comply. Site reviews the changes in laws and regulations, update the new laws and regulations to the management list, evaluate compliance, and plans to comply with new laws and regulations that are relevant to site.	
3.2.2	<i>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.</i>	 Yes
Comment	There are no specific legal regulations that the site must comply with to respect water rights. Water is being provided by government authorities to the people in the catchment.	
3.3	<i>Implement plan to achieve site water balance targets.</i>	
3.3.1	<i>Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.</i>	 Yes
Comment	Site has updated the status of progress of actions for following water balance targets linked with Water balance: - Improving water usage efficiency - Achieving a 5% water saving compared to 2023 - Maintaining Adequate Water Supply and Utilities	
3.3.2	<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>	 Yes
Comment	Site has presented the estimated water savings from the following water saving projects: - Re-use condensate water of DI system - Re-use condensate water of AHU - Reduce the amount of water once from 6 liters -> 5 liters - Reduce water discharge - Install faucets to save water discharge Site has set target of 5% reduction every year. The actual water savings achieved can be compared at the end of year.	
3.3.3	<i>Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.</i>	 Yes
Comment	According to regulations, the site is not subject to legally-binding obligations regarding water reallocation. However, the site has signed an agreement with Bac Ninh province to provide support with fire trucks and firefighting water in case of fire in the province.	
3.3.4	<i>Advanced Indicator The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified.</i>	 Yes
Comment	The SEV site has signed an agreement with Bac Ninh province for the coordination of firefighting and rescue operations in Bac Ninh province. Whenever the site receives a response request from the Bac Ninh provincial fire police, the site immediately supports firefighting by mobilizing vehicles, personnel and firefighting water to the location. In recognition of its activities, the site has also received the Fire and Rescue Excellent Organization Award by the Ministry of Public Security in September 2023 on the occasion of Vietnam Firefighting Day and the Traditional Day of Fire Police and Rescue Units. The recent cases of support for fires are listed below: 1) Dreamtech Vietnam Co. Ltd. during April 2021 2) ESD Korea Vina Que Vo Co. Ltd. during January 2023 3) Yen Phu gas station, Yen Phong, Bac Ninh during July 2024	
Score	6	

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3.4	<i>Implement plan to achieve site water quality targets</i>	
3.4.1	<i>Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.</i>	 Yes
Comment	<p>The site has identified progress against actions for the following targets:</p> <ul style="list-style-type: none"> - 100% compliance with water-related legal regulations - Maintaining Adequate Water Supply and Utilities <p>A none of actions identified by site against the targets are regular maintenance activities. There are actions which the site has already been implementing and are based on calendar year timelines i.e. as the months complete for a year, the progress achievement is calculated.</p>	
3.4.2	<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>	 Yes
Comment	<p>In order to reduce negative water impacts of site operations, the SEV site sets and complies with in-house water quality standards that are stricter than legal standards, i.e. 50% of the legal standard.</p> <p>Although it is not a legal obligation, site has installed and is operating TMS to monitor compliance with in-house water quality standards in real time.</p>	
3.5	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
3.5.1	<i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i>	 Yes
Comment	<p>Site has set target assessing the condition (good, poor, or deteriorating) of in-house IWRAs and cleanup activities of off-site IWRAs.</p> <p>An external contractor analyzes the water quality of pond (for pH, COD, TSS, T-N, and T-P) and fountain every month to identify any contamination. The river cleanup activities are conducted every two months for canals near the industrial park, and an additional river cleanup activity for the Cau River.</p>	
3.5.2	<i>Advanced Indicator Evidence of completed restoration of non-functioning or severely degraded Important Water-Related Areas including where appropriate cultural values from a site-selected baseline date shall be identified. Restored areas may be outside of the site, but within the catchment.</i>	 No
Comment	<p>Site has mentioned that in response to the increasing deterioration of water quality and illegal dumping of wastes in the Cau River and canals near the industrial park, SEV site conducted cleanup and dredging activities for selected off-site IWRAs to improve water quality in the area and create a water-friendly environment.</p> <p>There is no evidence of completed restoration of non-functioning or severely degraded Important Water-Related Areas.</p> <p>The monitoring of identified existing off-site IWRAs show that the IWRAs are in good condition.</p>	
3.5.3	<i>Advanced Indicator Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the healthy status of Important Water-Related Areas in the catchment shall be identified.</i>	 Yes

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Comment	The site prepared and shared the AWS Outcomes evaluation, which includes information on water management performance, with stakeholders such as employees, government and regulatory agencies, local residents and civic groups, partners, and nearby companies. The above was shared in the form of survey and received consensus from stakeholders that the site is seen as positively contributing to the healthy status of Important Water-Related Areas.	
Score	2	
3.6	<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>	
3.6.1	<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	The site provides adequate access to safe and clean water, sanitation, and hygiene facilities for all employees and visitors. Site has provided water purifiers, restrooms, showers, and hygiene facilities for all employees and the number of facilities in the workplace are more than the required facilities as per norms.	
3.6.2	<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	Site has been working towards reducing the water consumption at site and discharging the treated wastewater from site. Site has provided access to WASH facilities for outside population. From the above it can be stated that the site is not impinging on the human right to safe water and sanitation of communities through their operations.	
3.6.3	<i>Advanced Indicator A list of actions taken to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness shall be identified.</i>	Yes
Comment	The site has declared the information center restroom at the site as an open toilet to support the improvement of WASH services for stakeholders in the catchment, including local residents. In May 2023, the site supported Samsung Hope School in Tien Du District, Bac Ninh Province to renovate the facilities of the school. In March 2024, on the celebration of World Water Day, in cooperation with the People's Committee of Long Chau Bac Ninh District, site provided 767,200 ml of drinking water to 1,096 students of Long Chau Elementary School in the catchment.	
Score	5	
3.6.4	<i>Advanced Indicator: In catchments where WASH has been identified as a shared water challenge, evidence of efforts taken with relevant public-sector agencies to share information and to advocate for change to address access to safe drinking water and sanitation shall be identified.</i>	No
Comment	WASH has been identified as a shared water challenge. There is no evidence of efforts taken with relevant public-sector agencies to share information and to advocate for change to address access to safe drinking water and sanitation.	
3.7	<i>Implement plan to maintain or improve indirect water use within the catchment:</i>	
3.7.1	<i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i>	in progress

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Comment Site has gathered water related information of suppliers. But, there are no indirect water use targets set in the water stewardship plan.
Site has set target of "Conducting at least two supplier engagement activities" for the year.

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3.7.2 *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.*


Yes

Comment On July 16, SEV site conducted a water resource training related to AWS activities for site's main suppliers. A total of 224 HR & EHS managers from 119 companies (both within the catchment and outside the catchment) participated in the training program.
SEV conducted a survey of water usage and water management activities for main suppliers of the site. The water related data from 93 companies (both within the catchment and outside the catchment) was collected alongwith the annual water usage and best practices.
Site has also shared improvements achieved by environmental contractors through consulting:
1) Environmental Contractor 1: Instead of discharging wastewater directly into the environment, a wastewater recovery system was implemented to recycle water. This change has contributed to cost savings and sustainable water management by efficiently using resources and saving 20 m³ of clean water daily.
2) Environmental Contractor 2: Reuse of cooling wastewater has reduced environmental pollution and also enabled more efficient use of water resources. An estimated 5,475m³ of water is expected to be saved annually.

3.7.3 *Advanced Indicator
Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.*


Yes

Comment Samsung Electronics has established RBA evaluation criteria, which are used to regularly assess its suppliers. These evaluations cover various aspects, including water-related criteria such as pollution prevention, resource conservation, and water pollution.
Samsung Electronics conducts on-site inspections at supplier facilities to identify areas in need of improvement. Any identified areas requiring improvement are communicated to the suppliers, along with a request for corrective actions. Suppliers are expected to take appropriate corrective actions, and site monitors their progress until the issues are resolved.
On July 16, SEV site conducted a water resource training related to AWS activities for site's main suppliers. A total of 224 HR & EHS managers from 119 companies (both within the catchment and outside the catchment) participated in the training program.

Score 5

3.8 *Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.*

3.8.1 *Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.*


Yes

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Comment	Based on the results of first stakeholder survey and site's sharing WS Plan with stakeholders through second stakeholder survey. The SEV site operates an environmental improvement action council with Viglacera, SDIV, SDV, and the local People's Committee. The council contributes to the formation of good governance of the catchment by communicating and conducting activities on various water-related issues such as water quality management of canals around the industrial park, regular social contribution activities, sharing water quality information, and organizing annual environmental events to jointly reduce water risks. During June 2024, site launched the project to construct and renovate Cua Hyuen local pumping station to provide 42,000 cubic meters of irrigation water per year for a total of 35 hectares of farmland in Phat Tich village, Tien Du district, Bac Ninh province, and established a project coordination committee composed of 5 representatives from the site, Phat Tich district, and the Department of Agriculture and Rural Development of Bac Ninh province.	
3.9	<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>	
3.9.1	<i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i>	 Yes
Comment	Site has implemented actions towards achieving best practice, related to water governance. Some of them are listed below: - Establishment of AWS Water Management team in March 2024 - Awareness session at school and with other stakeholders - AWS training for major suppliers and resident contractor - Student education visit for Environment protection (Air pollution and Wastewater treatment facility)	
3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Obs.
Comment	Site has identified water balance best practices for the catchment. There are no implemented actions linked to the identified best practices. However, there are other water balance related actions that the site has implemented. The following activities were set as target in the WS Plan and implemented. - Reusing condensed water from the AHU system - Reusing RO membrane water - Installation of water-saving equipment at site's sanitation facilities (toilets, urinals, and faucets) - Water Pumping station restoration project in the catchment	
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	Site has implemented actions towards achieving best practice, related to targets in terms of water quality and are listed below: - Voluntary installation of TMS system for online quality monitoring of wastewater - Managing water pollutants within 50 % of the legal limit - Checking vehicles entering and leaving the site for oil leaks and providing training on water pollution prevention	
3.9.4	<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	Site has implemented actions towards achieving best practice, related to Important Water-Related Areas and are listed below: - Conducting voluntary IWRA monitoring and condition assessment - Conducting regular river cleanup activities near industrial park	

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3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes
Comment	<p>Site has implemented actions towards achieving best practice, related to WASH and are listed below:</p> <ul style="list-style-type: none"> - Operating open restrooms at the site's entrance and exit gates - Providing drinking water to vulnerable populations - Supporting restroom renovations at a nearby elementary school 	
3.9.6	<i>Advanced Indicator Achievement of identified best practice related to targets in terms of good water governance shall be quantified.</i>	 Yes
Comment	<p>Site has quantified the achievement of identified best practice related to good water governance by formation of AWS TF team - composed of members from the EHS and Infra groups to support internal water management and external cooperation activities. Main activities of the SEV AWS TF team are as follows:</p> <ul style="list-style-type: none"> - Conducting a total of 3 catchment stakeholder surveys - Benchmarking water-related best practices of other companies in the same catchment and same sector - Sharing water best practices with other group sites (annually) - Sharing water quality monitoring data with other group sites (quarterly) - AWS Training for major suppliers and resident contractors - Site tour of water treatment facilities and water-related training for external stakeholders 	
Score	8	
3.9.7	<i>Advanced Indicator Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.</i>	 Yes
Comment	<p>Site has estimated and quantified the savings achieved by implementation of water conservation initiatives:</p> <ul style="list-style-type: none"> - Installation of water-saving equipment in site's sanitation facilities - Reusing RO membrane water - Reusing condensed water from the AHU system - Construct and renovation of Cua Hyuen local pumping station to provide 42,000 cubic meters of irrigation water per year for a total of 35 hectares of farmland 	
Score	8	
3.9.8	<i>Advanced Indicator Achievement of identified best practices related to targets in terms of water quality shall be quantified</i>	 Yes
Comment	<p>To minimize the site's adverse impacts to water resources, the site has established in-house standard concentration which is 50% of the legal standard concentration for treated wastewater discharged from plant.</p> <p>A TMS system has also been installed at wastewater treatment plant to monitor real time wastewater quality data.</p> <p>The average discharge concentration for major quality parameters in 2023 are as follows, and all of them achieved below the Internal water quality standards:</p> <ol style="list-style-type: none"> 1) COD : 21.9 mg/L 2) BOD5 : 7.3 mg/L 3) SS : 21.2 mg/L 4) T-N : 6.6 g/L 5) T-P : 0.7 mg/L <p>In addition to above, SEV conducts monthly oil leakage checks for about 120 vehicles entering and leaving the site every month.</p>	
Score	8	

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3.9.9	<i>Advanced Indicator</i> <i>Achievement of identified best practices related to targets in terms of the site's maintenance of Important Water-Related Areas have been implemented.</i>	 Yes
Comment	<p>Every month, site analyze the water quality for parameters such as pH, COD, TSS, T-N, and T-P at each IWRA to determine if it is polluted.</p> <p>Till now, there have been no case of deterioration found in the identified IWRAs.</p> <p>In 2022 and 2023, the site organized monthly cleanup activities to remove underwater and waterfront pollution from the Viglacera and SDIV along with the industrial park canals. In 2024, river cleanup activities are conducted every two months for canals near the industrial park, and one additional river cleanup activity was conducted for the Cau River.</p> <p>On 17 July, the site teamed up with Viglacera, SDIV, and local residents to clean up the area of the initial water intake point (Cau River), collecting around 40 kg of plastic and nylon waste. This activity helped in improving the status of IWRA and also contributed to maintain a safe and clean water source.</p>	
Score	8	
3.9.10	<i>Advanced Indicator</i> <i>Achievement of identified best practice related to targets in terms of WASH shall be quantified.</i>	 Yes
Comment	<p>In May 2023, the site supported Samsung Hope School in Tien Du District, Bac Ninh Province to renovate the water-related facilities of the school.</p> <p>Site has declared the information center restroom at the site as an open toilet to support the improvement of WASH services for stakeholders in the catchment, including local residents.</p> <p>Site has also mentioned about providing 767,200 ml of drinking water to 1,096 students of Long Chau Elementary School during March 2024. This was a onetime activity and does not help in improving the water availability for the school. But, the above action in school has improved the WASH facilities in school.</p>	
Score	4	
3.9.11	<i>Advanced Indicator</i> <i>A list of efforts to spread best practices shall be identified.</i>	 Yes
Comment	<p>SEV site has made following efforts to spread best practices:</p> <ul style="list-style-type: none"> - Sharing AWS outcomes evaluation in the 3rd survey conducted with stakeholders - Nearby / Group companies over email - Sharing Water stewardship plan & performance over email - Disclosing Water stewardship plan over website 	
Score	3	
3.9.12	<i>Advanced Indicator</i> <i>A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be identified.</i>	 Yes
Comment	<p>Site has tabulated list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site have been identified.</p>	
Score	10	
3.9.13	<i>Advanced Indicator</i> <i>Evidence of the quantified improvement that has resulted from the collective action relative to a site-selected baseline date shall be identified and evidence from an appropriate range of stakeholders linked to the collective action (including both those implementing the action and those affected by the action) that the site is materially and positively contributing to the achievement of the collective action shall be identified.</i>	 Yes

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Comment	<p>The site prepared and shared the AWS Outcomes evaluation, which includes information such as Performance against target, Contribution to achieving water stewardship outcomes, and Value creation, with stakeholders such as employees, government and regulatory agencies, local residents and civic groups, partners, and nearby companies. Site has disclosed the AWS Outcomes evaluation to stakeholders and conducted a survey to assess the effectiveness of the site's water resource management (stewardship) performance. All stakeholders who participated in the survey responded that the WS Plan of the SEV site would be effective in Catchment Stewardship.</p> <p>SEV site also conducted an evaluation of the site's water-related activities with a water expert. The expert praised the activities and achievements made in relation to water management at the site and agreed that they were adequate.</p>
Score	8

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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>
Comment	Site has evaluated the performance against the targets set in site's water stewardship plan. The same is being evaluated on monthly basis as of now.
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>
Comment	The site has tabulated site value benefits and shared value benefits against the evaluated performance on targets and has classified as social, environmental, financial and cultural values which were created through implementation of WS Plan. The value creation through water savings (resulting into monetary savings) have been estimated by site as the reduced industrial water use in the first half of 2024 have resulted in monetary savings both for water supply cost and wastewater discharge cost.
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>
Comment	Site has tabulated the shared value benefits against the evaluated performance on targets and has classified as social, environmental, financial and cultural values which were created through implementation of WS Plan.
4.1.4	<i>Advanced Indicator A governance or executive-level review, including discussion of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents shall be identified.</i>
Comment	An executive-level review headed by Mr. Lim Chung Hyen, SEV EHS Team Leader was held on August 8, 2024. The shared water challenges in the catchment where the site is located, site's activities to address water challenges, water-related risks and opportunities, SEV best practices and major events were reviewed during the meeting.
Score	3
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>
Comment	Site has mentioned that there were no emergency incidents during year 2022 and 2023.
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>

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Table with 3 columns: Label (Comment, 4.3.2, Comment, Score, 4.4, 4.4.1, Comment), Description (The site prepared and shared the AWS Outcomes evaluation... The site's efforts to address shared water challenges... The site has shared the water stewardship performance... Evaluate and update the site's water stewardship plan... The site's water stewardship plan shall be modified... Site has set a frequency of updating the water stewardship plan), and Observation (Obs., Obs.).

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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.	Yes
Comment	<p>The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations have been defined in an organisation chart and disclosed at following locations:</p> <ul style="list-style-type: none"> - Site entrance - Website - Canteen - Email for internal / external stakeholders 	
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.	Yes
Comment	<p>The site prepared and shared the AWS outcomes evaluation, with stakeholders such as employees, government and regulatory agencies, local residents and civic groups, partners, and nearby companies. Site has disclosed the AWS Outcomes evaluation to stakeholders through survey forms / messages / emails.</p>	
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.	Yes
Comment	<p>SEV site has publicly disclosed documents for its water management performance on the official website (https://news.samsung.com/vn/sev-va-sevt-thong-bao-ke-hoach-danh-gia-chung-nhan-lien-mi-nh-quan-tri-nuoc-aws). These documents entail quantified performance and contribution as well as shared value benefits received of the site and its stakeholders in the five main outcomes of water stewardship (water governance, water balance, water quality, IWRAs, WASH).</p>	
5.3.2	Advanced Indicator The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report.	No
Comment	<p>Samsung Electronics discloses overall information about water conservation and quality management in the Sustainability Report (p.17 ~18). The link for sustainability report is https://www.samsung.com/sec/sustainability/main. SEV site's efforts to implement the AWS Standard are not disclosed in the organization's annual report.</p>	
5.3.3	Advanced Indicator Benefits to the site and stakeholders from implementation of the AWS Standard shall be quantified in the organization's annual report.	Yes
Comment	<p>Benefits to the site and stakeholders from implementation of the AWS Standard have been quantified at Samsung Vietnam's website.</p>	

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Score 1

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.*



Yes

Comment Site's shared water-related challenges and efforts made to address these challenges have been disclosed by Stakeholder survey forms and Samsung Vietnam's website with link : (<https://news.samsung.com/vn/sev-va-sevt-thong-bao-ke-hoach-danh-gia-chung-nhan-lien-mi-nh-quan-tri-nuoc-aws>)

5.4.2 *Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.*



Yes

Comment In 2022 and 2023, the SEV site organized monthly cleanup activities to remove underwater and waterfront pollution from the Viglacera and SDIV along with the industrial park canals. In 2024, river cleanup activities are conducted every two months for canals near the industrial park, and one additional river cleanup activity was conducted for the Cau River.

- The site, together with personnel from the Environment Department and waste contractors, conducts regular canal cleanup activities in the areas around the park.
- The site organizes semi-annual canal dredging activities with Viglacera to improve and maintain the water quality of the canal around the industrial park.
- Site is a member of council which contributes to the formation of good governance of the catchment by communicating and conducting activities on various water-related issues such as water quality management of canals around the industrial park, regular social contribution activities, sharing water quality information, and organizing annual environmental events to jointly reduce water risks.
- SEV site has signed and implemented regulations on the coordination of firefighting and rescue operations in Bac Ninh province.
- Sharing monthly drinking water monitoring results with stakeholders and posting them on 27 bulletin boards at the site and in the EHS Global system.
- Sharing IWRA point monitoring results with stakeholders via email every month
- Posting monthly wastewater and emissions monitoring results quarterly on publicly accessible entrance bulletin board
- Providing water quality information upon request from relevant parties, such as suppliers and regulatory authorities

Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies have been identified.

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.*

5.5.1 *Any site water-related compliance violations and associated corrections shall be disclosed.*



Yes

Comment There were no water-related compliance violations at site observed during the year 2023. The same is also disclosed at page no. 64 of 83 (of Samsung sustainability report 2024) that there were no environment related compliance violations at any of the sites globally.

5.5.2 *Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.*



Yes

Comment No corrective actions required.

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.*



Yes

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Comment	Site has informed that there was no water-related violation that may pose significant risk and threat to human or ecosystem health.
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Photographic Evidence from Audit

✓
Yes



Inlet water pipeline.png



Fish Pond.jpg



AWS Disclosure at plant gate.png



Water storage Tanks.png

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WWT.jpg



Fish Pond Water inlet point.jpg



WWT2.png



SEV Fountain_IWRA.jpg

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WWT3.jpg



Chemical Store.png



Inlet water flowmeter.png



Utilities - Boilers.png

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Utilities - Cooling Tower.png

Upgrade or Downgrade of Certification

Justification for Upgrade or Downgrade

Summary of Evidence which led to change

Previous Findings

All non-conformities raised in the previous audit have been satisfactorily closed.


N/A