

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000858

SITE DETAILS

Site: **Hongqisheng Precision Electronics (Qinhuangdao) Co., Ltd.**

Address: No. 18 Tengfei Road, Economic and Technological Development zone, Qinghuangdao, Hebei, P.R. CHINA

Contact Person: Dong Hang

AWS Reference Number: AWS-000251

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Platinum

Date of certification decision: 2023-Dec-19

Validity of certificate: 2026-Oct-22

AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)

Audit Type(s): Re-Certification Audit

Audit Start Date: 2023-Oct-16

Lead Auditor: Lingyun Yu (TUV Rheinland)

Audit team participants:

Rico Shang

Site Participants:

Li Zhuoqun, Energy Manager

Gao Yuejiao, EHS Engineer

Mao Yuwei, EHS Engineer

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ADDITIONAL INFO

Summary of Audit Findings: A total of 4 findings were raised during the certification audit, 0 major non-conformities, 4 minor non-conformities, 0 observations.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 60 days of receipt of the audit report by 16/12/2023.

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

The audit team recommends re-certification of Hongqisheng Precision Electronics (Qinghuangdao) Co., Ltd. at Platinum level pending approval of the corrective actions plan.

Scope of Assessment: The scope of services covers the recertification audit for assessing conformity of Hongqisheng Precision Electronics (Qinghuangdao) Co., Ltd. against the AWS International Water Stewardship Standard Version 2.

Found in 2007, Hongqisheng located at No.18, Tengfei Road, Economic and Technological Development Zone, Qinghuangdao City, Hebei Province, now the premises has about 12000 employees and occupied about 400,000 square meter. Hongqisheng is mainly engaged in the design, research and development, manufacture, and sales of various kinds of printed circuit boards. Hongqisheng is a subordinate of Avary Holding Group.

The audit was conducted onsite on 16th to 19th October 2023.

The onsite site visit included the assessment of production lines, wastewater treatment plant, chemical warehouse and IWRA.

The following external stakeholders were interviewed during the audit: Qinghuangdao Economic and Technological Development Zone Water Affairs Bureau/Mr. Xin; Surrounding Company/Mr. Ran; Service Provider/Mr. Liu; Surrounding residents/Mr. Cao and Mr. Chen.

SCORE

110.00

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Minor	4
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FINDING DETAILS

Finding No:	TNR-006631
Checklist Item No:	1.3.5
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-16
Checklist item:	Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.
Findings:	The site did not fully identify its potential sources of pollution. The underground diesel storage tank, waste water tanks, etc. have not been marked as potential pollution sources on the site boundary map.
Corrective action:	<div>1. Fully identify pollution sources, including point sources, line sources, and non-point sources</div> <div>2. Based on the site layout, fully analyze the impact of pollution sources on the rainwater and sewage pipeline network</div> <div>3. Improve and update the pollution source diagram to make it more intuitive</div>
Finding No:	TNR-006632
Checklist Item No:	1.4.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-16
Checklist item:	The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.
Findings:	The factory did not systematically identify its service providers. Solid waste disposal service providers, hazardous waste disposal service providers, and wastewater treatment service providers were not included in the investigation scope.
Corrective action:	According to the supplier list, improve the investigation scope and quantify the water usage of manufacturers and major service providers who account for over 80% of the transaction volume.

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Finding No:	TNR-006633
Checklist Item No:	1.5.3
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-16
Checklist item:	The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.
Findings:	The relevant information on water balance in the catchment comes from the water resource bulletins issued by the governments of Hebei Province and Qinhuangdao City. However, the site only collected and analyzed the trend information of water balance in the catchment in 2016, 2017, and 2018, and did not regularly review and update the water balance within the catchment.
Corrective action:	<ol style="list-style-type: none">1. Based on the complete collection of water related data source files (water resource bulletins) within the watershed, comprehensively obtain the data to be updated in the watershed report, and complete the update and analysis;2. Complete the AWS 2.0 standard training plan, including new employee training and annual retraining
Finding No:	TNR-006634
Checklist Item No:	4.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2024-Oct-16
Checklist item:	Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.
Findings:	The site did not directly provide documents or links on water stewardship performance in the stakeholder survey questionnaire, so the feedback from stakeholders did not fully reflect the objective evaluation of water stewardship performance at the site.
Corrective action:	<ol style="list-style-type: none">1. Attach the use of links for water management performance to the questionnaire questions, collect the details of the specific work carried out in communication with stakeholders (communication channels and content drawings), and ensure the objectivity of its evaluation on this basis;2. Coordinate with the IT department to explore the completeness of the survey questionnaire collection platform functionality

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Report Details

Report	Value
Report prepared by	Lingyun Yu
Report approved by	Lisa Seufert
Report approved on (Date)	15/12/2023

Surveillance

Proposed date for next audit
2024-Oct-16

Stakeholder Announcements

Date of publication	Location
16/10/2023	http://www.avaryholding.com/news.aspx?type=11&id=1357
20/07/2023	https://www.tuv.com/content-media-files/greater-china/about-us/downloads/terms-and-conditions-and-certification-regulations/aws-stakeholder-announcement-tuvgd-hongqisheng-precision-electronics%E4%B8%AC%88qinhuangdao%E4%B8%9C%E4%B8%9C%E4%B8%9C-ltd_.pdf
01/10/2023	https://watersas.org/wp-content/uploads/2023/10/Hongqisheng-Stakeholder-Announcement.pdf

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Catchment Information



Catchment information.png

Catchment Information

Hongqisheng Precision Electronic (Qinghuangdao) Co., Ltd used two types of water suppliers by municipal water plants, the municipal water and the filtered water. The municipal water is for domestic use, and the filtered water is for production after the pretreatment of the plants. The municipal water plant has two sources. The main one is Taolinkou water reservoir, and the backup water is from Yanghe water reservoir. The water of two reservoirs are from Qinglong River, which belongs to the Qinglong River sub-catchment.

All these rivers belongs to the Haihe River Catchment. The Haihe River Basin borders the Bohai Sea in the east, Taihang in the west, the Yellow River in the south and the Mongolian Plateau in the north. The total area of the basin is 320,600 square meters, accounting for 3.3% of the total area of China. It includes 3 major river systems, Haihe River, Luan River and Tuhai Majia River.

The water sources are located in Qinglong River sub-catchment. The Qinglong River is an important tributary of the Luan River catchment. Its main stream is 246 kilometers long. It originated in Taitoushan, Pingquan City, Hebei Province. It flows through Chengde, Chaoyang, Qinhuangdao three cities, covering two provinces (Hebei and Liaoning), and finally affluxes Luan River into the Bohai Sea. It is the river flowing through Qinhuangdao City which with the largest drainage area and the most abundant water. The total drainage area is 2692.67 square kilometers. The Qinglong River is the mother river of the people of Qinhuangdao, the source of the project of "inducing Qing to Qin".

For discharged water, the factory adopts the principle of 'Separation of rainwater and wastewater', and the different discharged water flow into different pipeline. The rainwater is discharged into the municipal rainwater pipeline and then finally flow to the tributary of Dai River.

The industrial effluent is treated by the onsite wastewater treatment plant with capacity of 15000m³/d, and domestic sewage is treated by septic tank. After the onsite treatment, all treated wastewater is discharged to Longhaidao Wastewater Treatment Plant via municipal pipeline for further treatment. The treated wastewater from will Longhaidao Wastewater Treatment Plant flow to Xiaotang River. The water of Dai River and Xiaotang River finally flow to the Bohai Sea.

The Bohai Sea is located between 37°07' to 40°56' north latitude and 117°33' to 122°08' east longitude. The Bohai Sea is a closed inland sea with an area of about 80,000 square kilometers and an average depth of 18 meters. The Bohai Sea is surrounded by three provinces, Hebei, Shandong, Liaoning, and Tianjin. There are 13 cities around the Bohai Sea. The Ministry of Ecology and Environment, the National Development and Reform Commission, and the Ministry of Natural Resources jointly announced the "Action Plan for the Integrated Management of the Bohai Sea" on December, 2018. The plan proposes that, by 2020, the proportion of the coastal water quality achieve Class I and II will reach about 73%. The natural shoreline retention rate will be maintained at about 35%.

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Client Description and Site Details



Distribution map of water related infrastructure.png



Site boundary.png

Client/Site Background

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Summary of Shared Water Challenges

Summary of Shared Water Challenges




Hongqisheng faced with follow shared water challenges:

- 1.Priority as high, the standard for treatment and discharge of production wastewater are becoming higher and higher
- 2.Priority as high, risk of soil and groundwater contamination
- 3.Priority as high, water quality deterioration in the basin
- 4.Priority as medium, environmental purification, maintenance and management costs around the basin
- 5.Priority as medium, increasing water resource tension
- 6.Priority as medium, extreme climate change such as flooding
- 7.Priority as low, insufficient infrastructure, such as monitoring equipment and pipe network
- 8.Priority as low, fragile ecosystem

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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>	 Yes
0.1.1.2	<i>The scope of the proposed certification shall be under the control of a single management system.</i>	 Yes
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>	 Yes

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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 Maps showing the physical scope of the site are available, including:
 • Map of site boundaries with entry point of water supply and discharge points of wastewater and rainwater.
 • Map of water-related infrastructures at the site such as wastewater treatment station, fire pool and emergency pool.
 • Map of water service provider and its ultimate water source, and waste water service provider and its ultimate receiving water body.
 • Map of catchment that the site affects and is reliant upon for water.
 • Map of the water supply and drainage network within the site.

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

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



Yes

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Comment	<p>The subject of Identification, Evaluation and Control of Environment, Energy Risks and Opportunities specified in Hongqisheng's Environment, Health and Safety Management System (with Document No.: ST-3B0-001EFH) elaborates the process used for stakeholder identification and the communication channels with identified different stakeholders. The process has taken into consideration the identification of following stakeholders:</p> <ul style="list-style-type: none"> • Stakeholders that have close relationship with Hongqisheng's business and have influence on Hongqisheng's economic, environmental and social performance; • Stakeholders located in Hongqisheng's physical scope and the catchment that Hongqisheng affects and is reliant upon for water; • Vulnerable people, indigenous peoples and ethnic minorities; • Stakeholders that are disclosed by Hongqisheng's same industry. <p>Hongqisheng has identified stakeholders such as the government, employees, NGOs, surrounding residents, suppliers, infrastructures, and surrounding companies, and has established diversified communication channels with different stakeholders. Hongqisheng analysed water-related interests and challenges presented by different stakeholders. The degree of stakeholder engagement was also identified.</p>	
1.2.2	<p><i>Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.</i></p>	 Yes
Comment	<p>Hongqisheng has developed an analysis table of stakeholders, the degree of influence between site and stakeholder has been identified of each stakeholder.</p>	
1.3	<p><i>Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.</i></p>	
1.3.1	<p><i>Existing water-related incident response plans shall be identified.</i></p>	 Yes
Comment	<p>Hongqisheng has developed a series of water-related incident response plans, including:</p> <ul style="list-style-type: none"> • Environmental Emergency Response Plan covering leakage accident, non-compliance of wastewater discharge because of failure of wastewater treatment station, banned discharged by local municipal wastewater treatment plant, soil contamination; • Process for Natural Disaster Emergency Preparedness and Response covering typhoon, rainstorm, etc.;(SG-3B0-294) • Process for Preparedness and Response of EHS Emergency covering fire, chemical leakage, etc.; (SG-3B0-346EFH) • Emergency Response for Abnormal or Suspension of Water Supply; • Special Emergency Response Plan for El Niño. <p>Hongqisheng has updated its Environmental Emergency Response Plan and registered it at Qinhuangdao Ecological Environment Bureau Economic and Technological Development Zone Branch on 23 August 2022 with the registration No.: 130361-2022-057-M.</p>	
1.3.2	<p><i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i></p>	 Yes
Comment	<p>Hongqisheng has established a comprehensive metering system to record the water input and output daily.</p> <p>And Hongqisheng also analyses the water consumption of each process every month and conducts performance evaluation on them.</p> <p>Hongqisheng conducts internal water balance analysis every six month, and draws a water balance diagram, which identifies water inflow, drainage, production water, domestic water, reuse water, reuse water, losses, storage, outflow, etc.</p> <p>In November 2021, the Hongqisheng commissioned a third-party organization to conduct water balance testing, complied with the "General Principles of Water Balance Test in Enterprises (GB/T12452-2008)", a China national standard.</p>	

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1.3.3	<i>Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.</i>	 Yes
Comment	<p>Hongqisheng has established a large database for water balance, and monthly variance in water usage is identified and mapped.</p> <ul style="list-style-type: none"> • Total usage of tap water; • Tap water consumption for domestic purpose; • Tap water consumption for production purpose; • Tap water consumption for auxiliary equipment; • Water recycling; • Treatment of industrial wastewater; • Discharge of industrial wastewater; • Treatment of domestic sewage; • Discharge of domestic sewage; • Variances. 	
1.3.4	<i>Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.</i>	 Yes
Comment	<p>Hongqisheng has developed a water-related quality monitoring plan, including rainwater, Industrial and domestic wastewater and drinking water, for example:</p> <ul style="list-style-type: none"> • Rainwater is tested by an external qualified laboratory every six months. The site internally monitors the water quality of the rainwater well every time it rains, and conducts internal routine monitoring of the rainwater well every month. • Drinking water is tested by an external qualified laboratory every six months • Secondary water supply is tested by three parties every six months • Domestic wastewater is tested by an external qualified laboratory every month; • Industrial wastewater is tested by an external qualified laboratory every month, The site samples and monitors the wastewater treatment system every 2 hours to ensure its normal operation. <p>For critical pollutants, such as silver and nickel, Hongqisheng conducts daily sampling and testing at the workshop wastewater outlet.</p> <p>Hongqisheng has installed an online monitoring system for wastewater at the main discharge outlet to monitor the COD, ammonia nitrogen, total phosphorus, pH, total nickel, and total copper content in the discharged wastewater in real-time</p> <p>Hongqisheng also pays attention to the water quality through the official website of the water supply company;</p> <p>Hongqisheng regularly monitors the soil and groundwater in the site (entrust a third party laboratory).</p> <p>The site annually entrusts a third-party laboratory to monitor the copper and nickel content in the sediment of the XiaoTang River (the final receiving water body for wastewater), with sampling points located upstream and downstream of the final discharge outlet of the wastewater, as well as at the intersection of the XiaoTang River and other rivers. According to the national standard: "Pollutant Control Standard for Agricultural Sludge" (GB4284-2008) Class A.</p>	
1.3.5	<i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i>	 No
Comment	<p>Hongqisheng has identified potential sources of pollution such as chemical storage and usage, sludge storage at wastewater treatment station and storage of hazardous waste, and relevant measures to prevent and control contamination have been taken including strengthening management, establishment of secondary containment and emergency response, installation of liquidometer at rainwater discharge outlet. In addition, Hongqisheng has mapped the identified potential sources of pollution.</p>	

Finding No: TNR-006631

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1.3.6	On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.	 Yes
Comment	There are no Important Water-Related Areas in the site.	
1.3.7	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.	 Yes
Comment	Hongqisheng conduct the cost analysis monthly, which covered the water-related costs such as direct water cost, water purification and treatment cost. Water revenues resulting from implementing water-saving measures have also been identified.	
1.3.8	Levels of access and adequacy of WASH at the site shall be identified.	 Yes
Comment	Hongqisheng provides dormitories and canteen for employees. Sanitation and hygiene installations and water purifiers are also installed at office buildings, dormitory areas and all workshops. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010). The site also conducts WBCSD self-assessment to evaluate the level of onsite WASH. The result is satisfied.	
1.4	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.	
1.4.1	The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.	 Yes
Comment	Hongqisheng screened and identified the suppliers accounted for 5 percent of the cost, and then sent the questionnaires to investigate their indirect water consumption. Moreover, by using WWF's map of water risk filter, Hongqisheng also evaluated the water related risk level in the catchment where its suppliers are located.	
1.4.2	The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.	 No
Comment	Hongqisheng has compiled a list of service providers, and then sent the questionnaires to investigate their indirect water consumption. The investigated service providers include catering service providers, property service providers, etc.	
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1.4.3	Advanced Indicator The embedded water use of primary inputs in catchment(s) of origin shall be quantified.	 Yes
Comment	Hongqisheng screened the suppliers to identify the supplier account for 5 percent of the cost, and then sent the questionnaires to investigate their indirect water consumption. And the embedded water use of primary inputs in catchment of origin has been quantified. Moreover, by using WWF's map of water risk filter, Hongqisheng also evaluated the water related risk level in the catchment where its suppliers are located.	
Score	7	
1.5	Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH	

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1.5.1	<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>	 Yes
Comment	<p>Hongqisheng has established a legislation and regulatory requirement collection system named “Legal Knowledge Network”. Through this system, Hongqisheng can identify the catchment plan(s), water-related public policies, major publicly-led initiatives, and legal requirements.</p> <p>We reviewed Hongqisheng’s Legal Knowledge Network. In addition, the update water governance initiatives have been included in the Background Report for Water Risks, Opportunities and Challenges of Haihe Catchment 2023.</p>	
1.5.2	<i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i>	 Yes
Comment	<p>By using its “Legal Knowledge Network”, Hongqisheng has identified applicable water-related legal and regulatory requirements and a Form for Compliance Evaluation of Laws and Regulations has been developed. We reviewed Hongqisheng’s Evaluation Report for Compliance with Laws and Regulations in the First Half of 2023. The evaluation results demonstrated Hongqisheng’s compliance.</p>	
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>	 No
Comment	<p>The Report of Background Information for Water Risks, Opportunities and Challenges of Haihe Catchment provides a detailed analysis of water balance for the catchment. The water balance in the catchment is analysed based on the rainfall (mm), precipitation (m3), surface water resources (m3), groundwater resources(m3), water diversion (m3), total water supply (m3) and total water consumption(m3).</p> <p>The water consumption, water resources, per capita water consumption and trends, and water resource development and utilization rates in the Haihe Catchment and Qinhuangdao region are identified and quantified.</p>	
Finding No: TNR-006633		
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 Report of Background Information for Water Risks, Opportunities and Challenges of Haihe Catchment has identified and quantified water quality of the catchment including coastal water, major rivers and water sources. The water quality of all national and provincial monitoring sections installed at the rivers within Qinhuangdao region had improved water quality levels.</p> <p>In addition, based on the document review, the water quality of water supply plants in Qinhuangdao is tested on a monthly basis, and the water quality fully meets the national standards. The testing results are disclosed through the Official website of Qinhuangdao Ecological Environment Bureau, http://sthj.qhd.gov.cn/home/list?pcode=NDAYOGFiODE2MzI5MTVjZDAxNjMyOTFhOTVIYTAwMTI%ce%b3&code=NDAYOGFiODE2MzI5MTVjZDAxNjMyOTIwYTJmNTAwNWY%ce%b3</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

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Comment	The Report of Background Information for Water Risks, Opportunities and Challenges of Haihe Catchment has collected the "Conservation Plan for Ecological Red Line Areas of Hebei Province" and the "Basic Ecological Control Line of Qinhuangdao", which identified the Important Water-Related Areas in the catchment. Hongqisheng is not located within the Ecological Red Line Areas or the Basic Ecological Control Line. Therefore, it has little influence on the Important Water-Related Areas in the catchment.	
1.5.6	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 Yes
Comment	The Report of Background Information for Water Risks, Opportunities and Challenges of Haihe Catchment elaborates the existing and planned water-related infrastructure including water supply, flood control and drainage, wastewater treatment, emergency response at provincial, catchment and city levels and water-related objectives. Based on the available information, the water-related infrastructure in the catchment is relatively good.	
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
Comment	Based on the Qinghuangdao Statistical Yearbook, in Qinghuangdao, the public water coverage rate is 98.24%, the wastewater Treatment Rate is 96.81%. It indicates that the WASH services in the Qinghuangdao are adequate.	
1.5.8	<i>Advanced Indicator Efforts by the site to support and undertake catchment level water-related data collection shall be identified.</i>	 Yes
Comment	Hongqisheng's wastewater water discharge via the municipal pipeline, and flow to the Xiaotang River. The site annually entrusts a third-party laboratory to monitor the copper and nickel content in the sediment of the XiaoTang River (the final receiving water body for wastewater), with sampling points located upstream and downstream of the final discharge outlet of the wastewater, as well as at the intersection of the XiaoTang River and other rivers. According to the national standard: "Pollutant Control Standard for Agricultural Sludge" (GB4284-2008) Class A.	
Score	5	
1.5.9	<i>Advanced Indicator The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified.</i>	 Yes
Comment	By search on the Statistic Yearbook of different provinces, Hongqisheng has identified adequacy of WASH provision within the catchments of origin of primary inputs including the coverage of safety drinking water supply, the coverage of wastewater treatment, the rate of security disposal of municipal solid waste, and public facilities and environmental sanitation in urban districts.	
Score	4	
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	The Report of Background Information for Water Risks, Opportunities and Challenges of Haihe Catchment identifies 8 shared challenges in the catchment, including: 1.The standard for treatment and discharge of production wastewater are becoming higher and higher 2.Risk of soil and groundwater contamination 3Water quality deterioration in the basin 4.Environmental purification, maintenance and management costs around the basin 5.Increasing water resource tension 6.Extreme climate change such as flooding 7.Insufficient infrastructure, such as monitoring equipment and pipe network 8.Fragile ecosystem Meanwhile, based on the analysis of relevance/rationale for stakeholders and relevance/rational for the site, Hongqisheng has prioritized the shared challenges.	
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	Initiatives to address shared water challenges have been also identified in the List of Shared Water Challenges in the Catchment.	
1.6.3	<i>Advanced Indicator Future water issues shall be identified, including anticipated impacts and trends</i>	 Yes
Comment	Hongqisheng has collect the information of future water issues, anticipated impacts and trends in the of the Special Emergency Response Plan for El Nino.The main challenge is that the increasing population required more water, but the future water diversion project and technology improvement may counteract the impact.	
Score	3	
1.6.4	<i>Advanced Indicator Potential water-related social impacts from the site shall be identified, resulting in a social impact assessment with a particular focus on water.</i>	 Yes
Comment	Hongqisheng has conducted the social impact evaluation report. The report identified its potential water-related social impacts to local water resource and water quality of water body. The response actions are also analysed and included in the report.	
Score	4	
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>	 Yes
Comment	Hongqisheng has identified its water risks in 12 aspects covering water governance, sustainable water balance and water quality. Based on risk analysis, Hongqisheng has prioritized its water risks according to potential impact, likelihood within a given time and difficulty of detection. Meanwhile, corresponding response strategies to mitigate water risks are developed.	
1.7.2	<i>Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</i>	 Yes
Comment	Seven water opportunities including government support, customer encouragement and self-improvement was also identified and prioritised.	

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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	<p>Hongqisheng has identified relevant catchment best practice for water governance including:</p> <ul style="list-style-type: none"> • A comprehensive water stewardship plan that is routinely reviewed and updated; • Designating responsibility for water stewardship to senior staff; • Training of all employees on the principles of water stewardship; • Engaging with peer organizations and stakeholders to promote water stewardship; • Demonstrating its support for good water governance and stewardship with appropriate authorities; • Communicating on its own water stewardship to set a leading example to others. 	
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>	 Yes
Comment	<p>Hongqisheng has identified relevant sector and/or catchment best practice for water balance including:</p> <ul style="list-style-type: none"> • Rainwater and condensate water recovery • Perform water balance testing as per GBT 12452-2022 General Rules for Water Balance Testing of Enterprises • Undertake a detailed study on how water is used in the site and introduce water efficient technology into production process; • Train workers on how to improve efficiency in the work they do, and on basic daily activities, such as switching off taps; • Install water efficient fittings, for example for toilets, wash rooms, equipment washing facilities, bath installations, etc. 	
1.8.3	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Yes
Comment	<p>Hongqisheng has identified relevant sector and/or catchment best practice for water quality, especially match water quality to its intended purpose. Based on different uses, water is divided into the following categories:</p> <ul style="list-style-type: none"> • Use for production purpose: Tap water, filtered water, soft water, RO water and purified water • Use for domestic purpose: Tap water • Use for other purpose: Reuse water for toilet flushing, greenbelt irrigation and waste gas treatment tower spraying <p>-Monitoring frequency of main pollutant, and active disclosure of water monitoring information. -Formulate internal control requirements that are stricter than the wastewater discharge permit</p>	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	<p>The site has identified best practices related to onsite Important Water Related Areas (IWRA).</p> <ol style="list-style-type: none"> 1.Regularly collect information on IWRA water quality and health status 2.Regularly test the water quality of important surrounding water bodies and wastewater receiving water bodies to monitor their water quality trends. 3. Continuously maintain and manage the greening and soil in the site network to avoid pollution of groundwater and soil 4. Regularly monitor the rainwater in the site 5. Regularly monitor the soil and groundwater in the site 	
1.8.5	<i>Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.</i>	 Yes

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- Comment
- The site has identified relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services including:
- WBCSD self-assessment tool
 - GB 5749 Sanitary Standard for Drinking Water
 - GBZ 1-2010 Hygienic standards for the design of industrial enterprises

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2	STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	<i>Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.</i>	
2.1.1	<p><i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i></p> <ul style="list-style-type: none"> <i>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</i> <i>- That the site implementation will be aligned to and in support of existing catchment sustainability plans</i> <i>- That the site's stakeholders will be engaged in an open and transparent way</i> <i>- That the site will allocate resources to implement the Standard.</i> 	 Yes
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by both Avary Holding's CEO and Environmental Supervisor. The commitment has been displayed on Avary's website. (Note: Hongqisheng is a subordinate of the Avary Holding Group)	
2.1.2	<p><i>Advanced Indicator</i></p> <p><i>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.</i></p>	 Yes
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by both Avary Holding's CEO and Environmental Supervisor. The commitment has been displayed on Avary's website. (Note: Hongqisheng is a subordinate of the Avary Holding Group) http://www.avaryholding.com/upload/file/2023-09-18/7d3888db-7933-4815-a38f-789e5104b14c.pdf	
Score	1	
2.2	<i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i>	
2.2.1	<p><i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i></p> <ul style="list-style-type: none"> <i>- Identification of responsible persons/positions within facility organizational structure</i> <i>- Process for submissions to regulatory agencies.</i> 	 Yes
Comment	<p>Hongqisheng has established a procedure, named "Procedure for Compliance Evaluation of Laws and Other Requirements (ST-2B0-008)" to ensure the operation of Hongqisheng to meet the provisions of relevant laws, regulations and other requirements.</p> <p>With the help of a third-party system, Hongqisheng timely obtains updated information on laws and regulations, and conducts compliance evaluation on laws and regulations every six months and keeps records.</p> <p>Evidences: Procedure for Compliance Evaluation of Laws and Other Requirements (ST-2B0-008); Compliance Assessment Record of Social Responsibility Laws and Regulations in the First Half of 2023.</p>	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	

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2.3.1	<p><i>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</i></p>	 Yes
Comment	<p>Hongqisheng has developed a water stewardship strategy, which specifies that Hongqisheng's water stewardship will follow the idea of "Avary Holding's Seven Greens", e.g. green innovation, green procurement, green production, green operation, green service, green recycling and green living, and 6 goals will be achieved towards good water stewardship in line with this AWS Standard, including:</p> <ul style="list-style-type: none"> - Make great efforts to cooperate with stakeholders in an open and transparent manner; - Comply with laws, regulations and other requirements; - Actively coordinate and support government authorities to develop water-related plans and policies; - Try our best to use water in a high-efficient way and reduce water loss; - Try our best to reduce pollution and promote the reduction, reuse, recycling and appropriate disposal of wastes; and - Strengthen internal communication and facilitate the understanding of water-related policies. <p>Hongqisheng also developed a Water Stewardship Plan (Year 2023), which specifies targets, required actions, measurement, cost and benefit, accountable and responsible persons, deadline, performance evaluation, etc.</p> <p>Evidences: Hongqisheng's Water Stewardship Strategy; Hongqisheng's Water Stewardship Plan - Improvement Action List (Year 2023)</p>	
2.3.2	<p><i>A water stewardship plan shall be identified, including for each target:</i></p> <ul style="list-style-type: none"> - <i>How it will be measured and monitored</i> - <i>Actions to achieve and maintain (or exceed) it</i> - <i>Planned timeframes to achieve it</i> - <i>Financial budgets allocated for actions</i> - <i>Positions of persons responsible for actions and achieving targets</i> - <i>Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.</i> 	 Yes
Comment	<p>Hongqisheng developed a Water Stewardship Plan (Year 2023), which specifies targets, required actions, measurement, cost and benefit, accountable and responsible persons, deadline, performance evaluation, etc. Each target is linked to the achievement of best practice and AWS outcomes.</p> <p>Evidences: Hongqisheng's Water Stewardship Plan - Improvement Action List (Year 2023)</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>1. Hongqisheng works with Leading Semiconductor Technology Qinhuangdao Co., Ltd. (Another sister company of Avary Holding Group) located in Qinhuangdao Economic Development Zone, Hebei Province in the promotion of water management in accordance with the AWS standards.</p> <p>2. Hongqisheng carries out the theme activity of "Environmental Protection and Energy Saving Month" every year. In June 2023, Hongqisheng carried out the theme activity of "the 16th Environmental Protection and Energy Saving Month", which includes photography exhibition, going to the campus (green classroom, painting competition, etc.), and organized employees to participate in environmental protection theme publicity and education activities with surrounding schools and employee families.</p> <p>Evidences: Brochure and summary of the theme activity of the 16th Environmental Protection and Energy Conservation Month</p>	

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Score 4

2.3.4 Advanced Indicator

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.



Yes

Comment

1. Avary Group leads Hongqisheng and its subsidiaries in different catchments (located in Shenzhen and Huai'an) to jointly carry out actions to improve the environmental performance of its group and developed the "Avary Seven Greens" KPI, e.g. green innovation, green procurement, green production, green operation, green service, green recycling and green living,
2. In May 2023, Hongqisheng and other subsidiaries (Shenzhen and Huai'an) jointly carried out the theme activity of "love the earth" to take joint action to advocate energy and water conservation, environmental protection, green travel and protecting the earth.

Evidences:

Internal publication of Avary Group; "Avary Seven Greens" KPI Annual Summary

Score 4

2.3.5 Advanced Indicator

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.



Yes

Comment

1. Avary Group has developed its own "Norm of Water Stewardship" (Q/440306 AVARY 001-2021) and a "Process for AWS Management", which specify the senior-most manager and his responsibilities, the process for AWS management, the evaluation and update the site's water stewardship plan. Because of Avary Group's best practices in water management, Avary Group has obtained the ENTERPRISE STANDARD FORERUNNER certificate issued by the China Association of Technology and Economics.
2. Hongqisheng has communicated with suppliers regarding its indirect water use targets, such as taking action to provide feedback and remove environmental violation records on the IPE platform, and disclosing pollutant emission information on the IPE platform. These targets have reached a consensus with stakeholders, especially suppliers.

Evidences:

Norm of Water Stewardship (Q/440306 AVARY 001-2021) issued by Avary Group on 30 October 2021

Score 7

2.4 Demonstrate the site's responsiveness and resilience to respond to water risks

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.



Yes

Comment

Hongqisheng has identified its water risks covering water governance, sustainable water balance and water quality. Meanwhile, Hongqisheng has also developed a Production Emergency Response Management Procedure to control and respond to water risks under different scenarios, such as wastewater leakage, equipment failure, natural disasters, water supply interruption, etc.

Evidences:

Production Emergency Response Management Procedure; Communication records with water related infrastructures

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Table with 2 columns: Criteria/Indicator and Score. Row 1: 2.4.2 Advanced Indicator, A plan to mitigate or adapt to water risks associated with climate change projections... Score: 6. Row 2: Comment, Hongqisheng has developed a Special Emergency Response Plan for El Niño... Row 3: Evidences, Hongqisheng's Special Emergency Response Plan for El Niño; Contact List of Relevant Public-Sectors and Infrastructure Agencies; Summary Report of Implementation of Special Emergency Response Plan for El Niño in 2023.

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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>Hongqisheng actively cooperates with the government supervision department to conduct supervisory inspections and visits.</p> <p>Hongqisheng actively participates in government organized meetings and initiatives on environmental protection related topics, such as the application and verification of "water-saving enterprises" and "Hebei Province's water efficiency leaders".</p> <p>Hongqisheng regularly monitors the water quality of the nearby Dai River and Xiaotang River, samples the water channel from upper, middle and lower reaches, and test the water quality of the above areas every month (test parameters include PH, total Cu, total Ni, TP, COD and NH3-N, etc.) according to the national standard: Surface Water Environmental Quality Standard GB 3838-2002. In addition, the site also entrusts a third-party laboratory to monitor the sediment of the Dai River and Xiaotang River every year to monitor the impact of factory operation on river health. The testing parameters include pH, copper, nickel, etc. According to the national soil environmental quality and agricultural land pollution risk control standard, GB 15618-2018. Test reports are shared with the local environmental protection department.</p> <p>Hongqisheng organizes the theme activity of "Environmental Protection and Energy Conservation Month" every year to actively advocate catchment governance. For example, in June 2023, Hongqisheng carried out the theme activity of "love the earth" to take joint action to advocate energy and water conservation, environmental protection, green travel and protecting the earth.</p>
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>By using its "Legal Knowledge Network", Hongqisheng can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Hongqisheng has identified the "Water Law of the People's Republic of China", which specifies that any entity and individual's water diversion, water interception, water impoundment and water discharge cannot damage public interest and the legal rights of others. The Form for Compliance Evaluation of Laws and Regulations developed by Hongqisheng can assess its compliance status in time. No water-related non-compliance has happened in Hongqisheng.</p>
3.1.3	<i>Advanced Indicator</i> <i>Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified.</i> ✔ Yes
Comment	<p>Hongqisheng has obtained the AWS Platinum certification since 2020. In addition, Hongqisheng has also formulated AWS management operating system procedures to standardize its water management. Avary Group has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021)". In addition, Hongqisheng has also developed a procedure document for the collection and updating of background information of the catchment to continuously collect water related information in the catchment to guide its continuous actions.</p> <p>Hongqisheng continues to implement AWS standards and regularly updates and improves its water management related procedures. Hongqisheng formulates, tracks, and reviews its Water Stewardship Plan annually to achieve its outcomes.</p>
Score	2
3.1.4	<i>Advanced Indicator</i> <i>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

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Comment	<p>1. On the IPE platform (a well-known environmental information disclosure platform in China), the CITI (Corporate Information Transparency Index) of Avary Group in 2023 ranked 16th among all industries and 5th in the IT/ICT industry.</p> <p>2. In May 2022, Hongqisheng was awarded the honor of "Environmental Protection Credit Evaluation A-level Enterprise" issued by the Qinhuangdao Ecological Environment Bureau, in recognition of the site's outstanding performance in environmental management, including topics such as environmental management, ecological protection, information public, etc.</p> <p>3. In January 2021, Hongqisheng was awarded the honor of "Provincial Water-Saving Enterprise" issued by the Hebei Province Industry and Information Technology Department, in recognition of the site's outstanding performance in environmental management, including topics such as water balance, water quality, water management, etc.</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
Comment	<p>Hongqisheng has established a procedure to ensure the operation of Hongqisheng meet the provisions of relevant laws, regulations and other requirements.</p> <p>With the help of a third-party system, Hongqisheng timely obtains updated information on laws and regulations, and conducts compliance evaluation on laws and regulations every six months and keeps records.</p> <p>Evidences: Procedure for Compliance Evaluation of Laws and Other Requirements (ST-2B0-008); Compliance Assessment Record of Social Responsibility Laws and Regulations in the First Half of 2023</p>	
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	<p>By using its "Legal Knowledge Network", Hongqisheng can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Hongqisheng has identified the "Water Law of the People's Republic of China", which specifies that any entity and individual's water diversion, water interception, water impoundment and water discharge cannot damage public interest and the legal rights of others. The Form for Compliance Evaluation of Laws and Regulations developed by Hongqisheng can assess its compliance status in time. No water-related non-compliance has happened in Hongqisheng.</p>	
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

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Comment	<p>The site has developed a Water Stewardship Plan (Year 2023) improvement action list, which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc. Hongqisheng has set its annual water consumption target in accordance with the Clean production level I standard, and conducts monthly performance evaluations on the water consumption of various departments.</p> <p>A series of project plans are implemented and continuously tracked, such as:</p> <ol style="list-style-type: none"> 1. Improve the pure water preparation system and recycle RO concentrated water for reuse; 2. Optimize the production process to improve the water efficiency of the production process. <p>Until 2023, a total of 9 process improvement plans related to water balance were proposed and followed up. Continuously improve the reuse ratio of water generated during the end cleaning process.</p> <p>Status of progress towards meeting water balance targets set in the water stewardship plan is also identified by the site. For example,</p> <ol style="list-style-type: none"> 1. Hongqisheng commissioned a third-party organization to conduct water balance testing in November 2021, and its industrial water reuse rate was 96.89%. 2. According to the Water Stewardship Plan (Year 2022), Hongqisheng has set a target of "achieving 52% industrial wastewater reuse rate for QHD park". Hongqisheng tracks its wastewater reuse ratio every month. The average monthly industrial wastewater reuse rate of the site is 52.6%. 	
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	<p>Hongqisheng continuously improves the wastewater reuse rate through various ways, such as:</p> <ul style="list-style-type: none"> - Reuse wastewater containing heavy metals after treatment; - Reuse RO concentrated water, and use the secondary concentrated water to replenish water to the cooling tower of the site; - Air conditioning condensate is collected for reuse; - Collect and use rainwater to reduce municipal water consumption; - Optimize the production process to improve the water efficiency of the production process. <p>Until 2023, a total of 9 process improvement plans related to water balance were proposed and followed up. Continuously improve the reuse ratio of water generated during the end cleaning process.</p> <p>Evidences: Summary of implementation of sustainable water management projects</p>	
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	Not applicable. No legally-binding documentation is issued by local government authorities to Hongqisheng for the re-allocation of water to social, cultural or environmental needs.	
3.3.4	<p><i>Advanced Indicator</i></p> <p><i>The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified.</i></p>	 No
Comment	The site does not perform this indicator.	
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

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Comment	<p>A series of water stewardship plans are implemented to achieve the site's water quality targets.</p> <p>Hongqisheng has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months.</p> <p>For internal control, Hongqisheng has defined the stricter discharge limits for its effluent, which are about 80% of the permitted discharge levels. The testing report showed that all testing results are lower than the internal standards. Status of progress towards meeting water quality targets set in the water stewardship plan is also identified.</p> <p>Evidences: Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; Internal wastewater test and analysis records</p>	
3.4.2	<p><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></p>	 Yes
Comment	<p>For internal control, Hongqisheng has defined the stricter discharge limits for its effluent, which are about 80% of the permitted discharge levels. The testing report showed that all testing results are lower than the internal standards.</p> <p>Evidences: Internal wastewater test and analysis records</p>	
3.5	<p><i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i></p>	
3.5.1	<p><i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i></p>	 Yes
Comment	<p>The site entrusted a property management company to manage and maintain the greening in the site area, and signed a contract with it.</p> <p>Industrial wastewater is transported through visual pipe network to avoid pollution of groundwater and soil.</p> <p>The site regularly monitors the rainwater in the site (a third party laboratory is entrusted to sample and test the rainwater every six months), and samples and tests the rainwater outlet on its own every time it rains.</p> <p>Regularly monitor the soil and groundwater in the site (entrust a third party laboratory)</p> <p>The site also tracks the status of IWRA's from public report or IWRA's website and analyzes the trend of water quality changes over the years.</p> <p>Hongqisheng regularly monitors the water quality of the nearby Dai River and Xiaotang River, samples the water channel from upper, middle and lower reaches, and test the water quality of the above areas every month (test parameters include PH, total Cu, total Ni, TP, COD and NH3-N, etc.) according to the national standard: Surface Water Environmental Quality Standard GB 3838-2002. In addition, the site also entrusts a third-party laboratory to monitor the sediment of the Dai River and Xiaotang River every year to monitor the impact of factory operation on river health. The testing parameters include pH, copper, nickel, etc. According to the national soil environmental quality and agricultural land pollution risk control standard, GB 15618-2018. Test reports are shared with the local environmental protection department.</p>	
3.5.2	<p><i>Advanced Indicator</i></p> <p><i>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.</i></p> <p><i>Restored areas may be outside of the site, but within the catchment.</i></p>	 No
Comment	<p>The site does not perform this indicator.</p>	

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3.5.3	<i>Advanced Indicator</i> <i>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>	 No
Comment	The site does not perform this indicator.	
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	<p>Hongqisheng has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Hongqisheng has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains.</p> <p>Hongqisheng also conducts WBCSD WASH Pledge self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Hongqisheng reached full point. Hongqisheng investigates the distribution of drinking water points and toilet facilities within the site, and analyses the adequacy of these facilities based on the standards WBCSD WASH Pledge and "GBZ 1-2010 Hygienic standards for the design of industrial enterprises"</p> <p>Hongqisheng conducts employee satisfaction survey every year, and collects employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.</p> <p>Evidences: Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; WBCSD WASH Pledge self-assessment tool; Process for the maintenance of drinking water machine system, document no. SG-3B0-199</p>	
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	No evidence is showed that the site is impinging on the human right to safe water and sanitation of communities through their operations according to the interviews with Hongqisheng's employees, local community and local government authorities.	
3.6.3	<i>Advanced Indicator</i> <i>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	<p>Hongqisheng has taken series of actions to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness, including:</p> <ul style="list-style-type: none"> - Provision to all employees of access to safe drinking water, adequate sanitation and hygiene awareness, and adoption of WBCSD WASH Pledge self-assessment tool; - Provision of safe drinking water for sanitation workers, delivery men, suppliers (A notice of providing safe drinking water for sanitation workers and delivery men is posted at the guard room adjacent to the road); and - In 2022, Hongqisheng donated hygiene supplies, such as hand sanitizer, disinfectant, masks, toothbrushes, etc. to one neighboring school. <p>Evidences: Hongqisheng's WBCSD WASH Pledge Self-assessment Tool; Notice of providing safe drinking water for sanitation workers and delivery men; Photo records of the donation activity</p>	

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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	The site does not perform this indicator.	
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>	 Yes
Comment	<p>Hongqisheng had carried out a thorough survey for the water use of suppliers and service providers, which account for more than 80% of its trading volumes and analyze their water risks. Hongqisheng analyzed their intensity of water consumption and water pollution. Meanwhile, by using WWF's map of water risk filter, Hongqisheng also analyzed their water risks.</p> <p>For suppliers with a high risk rating, Hongqisheng conducts on-site environmental assessments to assess their environmental management level and performance, and follows up on their audit findings.</p> <p>Hongqisheng regularly monitors the suppliers' violation records on the IPE platform, and promoted them to provide feedback to the IPE platform and remove the violation records. In 2023, 8 suppliers were promoted to remove the violation records.</p> <p>Hongqisheng also tracks the violation records of service contractors, such as hazardous waste disposal units on the IPE platform, and promotes them to remove the violation records. Hongqisheng has also developed targets and promoted suppliers to carry out Pollutant Release and Transfer Register (PRTR) on the IPE platform. The Group plans to promote 25 suppliers to complete the data disclosure by 2023, and as of the second quarter, a total of 15 suppliers have completed the data disclosure.</p> <p>Hongqisheng has also developed targets to provide technical support to 50 suppliers to guide them in completing data disclosure on the IPE platform. As of the second quarter, the Group has provided technical support to 34 suppliers.</p>	
3.7.2	<i>Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.</i>	 Yes
Comment	<p>Hongqisheng regularly monitors the suppliers' violation records on the IPE platform, and promoted them to provide feedback to the IPE platform and remove the violation records. In 2023, 8 suppliers were promoted to remove the violation records.</p> <p>Hongqisheng also tracks the violation records of service contractors, such as hazardous waste disposal units on the IPE platform, and promotes them to remove the violation records. Hongqisheng has also developed targets and promoted suppliers to carry out Pollutant Release and Transfer Register (PRTR) on the IPE platform. The Group plans to promote 25 suppliers to complete the data disclosure by 2023, and as of the second quarter, a total of 15 suppliers have completed the data disclosure.</p> <p>Hongqisheng continues to promote and track suppliers' sustainability related actions (including water management). As of the 3rd quarter of 2023, a total of 16 suppliers have responded to their sustainability actions, and a total of 7 related to water improvement cases have been carried out.</p>	
3.7.3	<i>Advanced Indicator Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.</i>	 Yes

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Comment	<p>Hongqisheng regularly monitors the suppliers' violation records on the IPE platform (a well-known environmental information disclosure platform in China), and promoted them to provide feedback to the IPE platform and remove the violation records. In 2023, 8 suppliers were promoted to remove the violation records.</p> <p>Hongqisheng has also developed targets and promoted suppliers to carry out Pollutant Release and Transfer Register (PRT) on the IPE platform. The Group plans to promote 25 suppliers to complete the data disclosure by 2023, and as of the second quarter, a total of 15 suppliers have completed the data disclosure.</p> <p>Hongqisheng has also developed targets to provide technical support to 50 suppliers to guide them in completing data disclosure on the IPE platform. As of the second quarter, the Group has provided technical support to 34 suppliers. On the IPE platform (a well-known environmental information disclosure platform in China), the CITI (Corporate Information Transparency Index) of Avary Group in 2023 ranked 16th among all industries and 5th in the IT/ICT industry.</p>		
Score	7		
3.8	<i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i>		
3.8.1	<i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i>		Yes
Comment	<p>Hongqisheng actively cooperates with the government supervision department to conduct supervisory inspections and visits.</p> <p>Hongqisheng keeps close contact with local water-related infrastructure owners through many ways such as Onsite visits, WeChat, e-mail or phone call.</p> <p>Evidences: The record of the site's communication with the water infrastructure</p>		
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	<p>Hongqisheng has obtained the AWS Platinum certification since 2020. In addition, Hongqisheng has also formulated AWS management operating system procedures to standardize its water management</p> <p>Avary Group has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021)". In addition, Hongqisheng has also developed a procedure document for the collection and updating of background information of the catchment to continuously collect water related information in the catchment to guide its continuous actions.</p> <p>Hongqisheng continues to implement AWS standards and regularly updates and improves its water management related procedures. Hongqisheng formulates, tracks, and reviews its Water Stewardship Plan annually to achieve its outcomes.</p>		
3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>		Yes
Comment	<p>Hongqisheng underwent a clean production audit in 2021 and was rated the first-level in water management.</p> <p>Hongqisheng has formulated an internal sustainable water balance standard, which is equivalent to the first-level of clean production standard. Hongqisheng evaluates its water performance every year and meets the internal control requirements for a long time.</p> <p>In addition, based on Hongqisheng's water balance tested by third party in November 2021, its industrial water reuse rate is up to 96.89%, which higher than the first level (≥55%) defined in the national "Clean Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008).</p>		

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3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	<p>Hongqisheng has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Hongqisheng has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains.</p> <p>For internal control, Hongqisheng has defined the stricter discharge limits for its effluent, which are 80% of the permitted discharge levels. The testing report showed that all testing results are lower than 80% of the internal standards.</p> <p>On-line monitoring devices had been installed at Hongqisheng's wastewater treatment station and networked with local environmental protection authority.</p> <p>Wastewater discharge testing, groundwater monitoring and soil monitoring are carried out regularly to meet or be stricter than government requirements.</p> <p>Evidences: Internal wastewater test and analysis records; Test reports issued by third parties</p>	
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	<p>Industrial wastewater is transported through visual pipe network to avoid pollution of groundwater and soil.</p> <p>The site regularly monitors the rainwater in the site (a third party laboratory is entrusted to sample and test the rainwater every six month), and samples and tests the rainwater outlet on its own every time it rains.</p> <p>Regularly monitor the soil and groundwater in the site (entrust a third party laboratory)</p> <p>The site also tracks the status of IWRA's from public report or IWRA's website and analyzes the trend of water quality changes over the years.</p> <p>Hongqisheng regularly monitors the water quality of the nearby Dai River and Xiaotang River, samples the water channel from upper, middle and lower reaches, and test the water quality of the above areas every month (test parameters include PH, total Cu, total Ni, TP, COD and NH3-N, etc.) according to the national standard: Surface Water Environmental Quality Standard GB 3838-2002. In addition, the site also entrusts a third-party laboratory to monitor the sediment of the Dai River and Xiaotang River every year to monitor the impact of factory operation on river health. The testing parameters include pH, copper, nickel, etc. According to the national soil environmental quality and agricultural land pollution risk control standard, GB 15618-2018. Test reports are shared with the local environmental protection department.</p>	
3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes
Comment	<p>Hongqisheng has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Hongqisheng has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains.</p> <p>Hongqisheng also conducts WBCSD WASH Pledge self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Hongqisheng reaches full point.</p> <p>Hongqisheng investigates the distribution of drinking water points and toilet facilities within the site, and analyses the adequacy of these facilities based on the standards WBCSD WASH Pledge and "GBZ 1-2010 Hygienic standards for the design of industrial enterprises"</p> <p>Hongqisheng conducts employee satisfaction survey every year, and collects employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.</p> <p>Evidences: Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; WBSCD WASH Pledge self-assessment sheet; Process for the maintenance of drinking water machine system, document no. SG-3B0-199</p>	

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3.9.6	<i>Advanced Indicator</i> <i>Achievement of identified best practice related to targets in terms of good water governance shall be quantified.</i>	 Yes
Comment	<p>Hongqisheng has obtained the AWS Platinum certification since 2020. In addition, Hongqisheng has also formulated AWS management operating system procedures to standardize its water management.</p> <p>Hongqisheng has developed its own "Norm of Water Stewardship (Q/440306 AVARY 001-2021), involving collection and analysis, policy and management plan, implementation, performance evaluation and continuous improvement, communication and disclosure, etc. In addition, Hongqisheng has also developed a procedure document for the collection and updating of background information of the catchment to continuously collect water related information in the catchment to guide its continuous actions.</p> <p>Evidences: Hongqisheng's AWS management operating system procedures, document No.: SG-2B0-001EFH; Hongqisheng's "Norm of Water Stewardship (Q/440306 AVARY 001-2021); Hongqisheng's procedure document for the collection and updating of background information of the catchment, document No.: SG-3B0-344EFH</p>	
Score	8	
3.9.7	<i>Advanced Indicator</i> <i>Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.</i>	 Yes
Comment	<p>Hongqisheng underwent a clean production audit in 2021 and was rated the first-level in water management.</p> <p>Hongqisheng has formulated an internal sustainable water balance standard, which is equivalent to the first-level of clean production standard. Hongqisheng evaluates its water performance every year and meets the internal control requirements for a long time. In addition, based on Hongqisheng's water balance tested by third party in November 2021, its industrial water reuse rate is up to 96.89%, which higher than the first level (≥55%) defined in the national "Clean Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008).</p>	
Score	8	
3.9.8	<i>Advanced Indicator</i> <i>Achievement of identified best practices related to targets in terms of water quality shall be quantified</i>	 Yes
Comment	<p>For internal control, Hongqisheng has defined the stricter discharge limits for its effluent, which are 80% of the permitted discharge levels. The testing report showed that all testing results are lower than 80% of the internal standards.</p> <p>Evidences: Internal wastewater test and analysis records</p>	
Score	8	
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>	 No
Comment	The site does not perform this indicator.	
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


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Comment	<p>Hongqisheng has formulated the process for quality monitoring of secondary water supply in the site, regularly monitors the drinking water, and entrusts a third party agency to monitor the drinking water every six months. Hongqisheng has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains.</p> <p>Hongqisheng also conducts WBCSD WASH Pledge self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Hongqisheng reached full point. Hongqisheng investigates the distribution of drinking water points and toilet facilities within the site, and analyses the adequacy of these facilities based on the standards WBCSD WASH Pledge and "GBZ 1-2010 Hygienic standards for the design of industrial enterprises"</p> <p>Hongqisheng conducts employee satisfaction survey every year, and collects employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.</p> <p>Evidences: Process for quality monitoring of secondary water supply, document no. SG-3B0-259EFH; Drinking water test reports; WBSCD WASH Pledge self-assessment sheet; Process for the maintenance of drinking water machine system, document no. SG-3B0-199</p>	
Score	4	
3.9.11	<p><i>Advanced Indicator</i> <i>A list of efforts to spread best practices shall be identified.</i></p>	 Yes
Comment	<p>1. In 2023, Hongqisheng received a total of 32 visits from external agencies, involving clients, governments, and industry representatives. Hongqisheng shared its water management implementation experience and AWS standard system with them.</p> <p>2. On September 27, 2023, Hongqisheng participated as a representative of the enterprise in the "Environmental Emergency Response Experience Sharing and Exchange Conference" organized by the Qinhuangdao Ecological Environment Bureau. Hongqisheng shared its best practices in the field of water and emergency response management. Participants include representatives from local government and enterprises.</p>	
Score	3	
3.9.12	<p><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></p>	 Yes
Comment	<p>Hongqisheng holds the Environmental Protection and Energy Conservation Month in June each year, and a series of collective actions are carried out.</p> <p>For example:</p> <ul style="list-style-type: none"> - "Avery Cup" Qinhuangdao Ecological Environment Public Welfare Photography Competition: Hongqisheng, together with the Qinhuangdao Ecological Environment Bureau, Qinhuangdao Daily, and Qinhuangdao Photographers Association, jointly holds an environmental themed photography competition every year to enhance the public's awareness of environmental protection, advocate for public attention to environmental topics around them, and continuously improve the quality of the local ecological environment. - "Fun Riverside" parent-child activity: Invite employees to take their children to participate in river water quality testing activities, and spread the concept of protecting rivers and the environment to children. - Green Campus Tour: Enter the school and carry out a series of activities to enhance the environmental awareness of primary school students, such as lectures on environmental knowledge, writing and painting competitions on environmental topics, etc. <p>Evidences: Summary of activities held in the 16th session of Environmental Protection and Energy Saving Month</p>	
Score	10	

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3.9.13	<p><i>Advanced Indicator</i></p> <p><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></p>	 No
Comment	The site does not perform this indicator.	

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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> ✓ Yes
Comment	Hongqisheng's Norm of Water Stewardship" (Q/440306 AVARY 001-2021) specifies the requirements of evaluating site performance and and its contribution to achieving water stewardship results based on the objectives of the water stewardship plan. According to Hongqisheng's water stewardship plan in 2022, 14 actions should be taken to achieve water stewardship outcomes. The implementation schedule has defined for each action. 12 actions were completed or ongoing, and the other 2 actions were in planning.
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i> ✓ Yes
Comment	Hongqisheng analysed its costs and value creation resulting from the implementation of water stewardship plan, especially the implementation of water-saving projects. For example, Implement the recycling project of RO overflow water from Huajin Line washing, and reuse the cleaning water from the overflow water washing tank in the previous process. This project can reduce water consumption by approximately 30000 tons per year.
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i> ✓ Yes
Comment	Through holding the publicity campaign regarding environmental protection and energy saving, the public' awareness of environmental protection was greatly promoted. The 'Green Campus Trip' was held between April 22 and June 5, in the whole series of activities, more than 200 students had participated. The publicity campaign brings enormous social benefit in the catchment. In addition, Hongqisheng has monitored the water quality of surrounding water bodies for many years. By monitoring the water quality of the final receiving water body of wastewater, Hongqisheng can monitor the trend of changes in surrounding water bodies and evaluate the impact of its operation on the surrounding water environment.
4.1.4	<i>Advanced Indicator</i> <i>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> ✗ No
Comment	The site does not perform this indicator.
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> ✓ Yes

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Comment The site presents its emergency response procedure and plan identifying proposed preventive and corrective actions, as well as measures to mitigate future incidents. No water-related emergencies and extreme events occurred at the site in recent years. As of the audit date in 2023, the factory has conducted a total of 13 types of environmental emergency drills in different scenarios. Drill records, summaries, and evaluations are available.

4.3 *Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.*

4.3.1 *Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.*



No

Comment Hongqisheng performed a satisfaction survey regarding its water stewardship in 2022. A Stakeholder Evaluation and Analysis Report in 2022 was prepared. The survey results showed that 85% are very satisfied with Hongqisheng's water stewardship; 10% of stakeholders are satisfied with Hongqisheng's water stewardship.

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4.3.2 *Advanced Indicator
The site's efforts to address shared water challenges shall be evaluated by stakeholders. This shall include stakeholder reviewing of the site's efforts across all five outcome areas, and their suggestions for continual improvement.*



Yes

Comment Hongqisheng has completed stakeholders' satisfaction survey regarding water stewardship. Based on the Stakeholder Evaluation and Analysis Report, some suggestions for continual improvement is gave by stakeholders. The following actions will be taken:

- Source reduction and recycling;
- Further promotion of wastewater treatment and management level;
- Promotion suppliers and industry's environmental awareness-raising;
- Participation in ecological restoration and catchment governance; and
- Strengthening of external environmental promotion.

Score 6

4.4 *Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.*

4.4.1 *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.*



Yes

Comment Hongqisheng has developed a "Process for AWS Management", which specifies that its water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations. Based on the Stakeholder Evaluation and Analysis Report in 2022, the stakeholders' main focuses are Hongqisheng's wastewater management and external communication. Actually, strengthening of wastewater management and external communication have been the key targets defined in Hongqisheng's annual water stewardship plan. According to Hongqisheng, they will continue to take strengthening of wastewater management and external communication into consideration when the development of water stewardship plan in 2023.

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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>Hongqisheng's Organization Chart of Integrated Management System clearly shows the manager representative of environment and water stewardship, the responsible department and person. The Organization Chart has also been displayed on Hongqisheng's website: http://www.avaryholding.com/upload/file/2023-09-18/7d3888db-7933-4815-a38f-789e5104b14c.pdf</p> <p>In addition, Hongqisheng has issued a "Procedure for Compliance Evaluation of Laws and Other Requirements", which specifies all departments' responsibilities of collection, registration and management of laws and other requirements.</p>	
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>Hongqisheng communicates its water stewardship plan with many stakeholders, including:</p> <ul style="list-style-type: none"> • Communicating with local government authorities and communities through environmental protection and water saving campaign; • Communicating with all stakeholders through questionnaires; • Communicating with relevant stakeholders through its CSR report 	
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>Hongqisheng's CSR report annually disclose its implementation of water stewardship against the AWS Standard.</p> <p>In addition, Hongqisheng also discloses its water stewardship information through the "Pollutant Release and Transfer Register" (PRTR) initiated by IPE. http://www.avaryholding.com/upload/file/2023-03-31/91591a37-ced3-4291-890d-36f06d53d187.pdf</p>	
5.3.2	Advanced Indicator The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report.	Yes
Comment	<p>Hongqisheng's CSR report annually disclose its implementation of water stewardship against the AWS Standard.</p> <p>In addition, Hongqisheng also discloses its water stewardship information through the "Pollutant Release and Transfer Register" (PRTR) initiated by IPE. http://www.avaryholding.com/upload/file/2023-03-31/91591a37-ced3-4291-890d-36f06d53d187.pdf</p>	
Score	1	

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5.3.3	<i>Advanced Indicator</i> <i>Benefits to the site and stakeholders from implementation of the AWS Standard shall be quantified in the organization's annual report.</i>	 Yes
Comment	Benefits to the site and stakeholders from implementation of the AWS Standard are also quantified in the Hongqisheng's CSR report on a yearly basis. http://www.avaryholding.com/upload/file/2023-03-31/91591a37-ced3-4291-890d-36f06d53d187.pdf	
Score	1	
5.4	<i>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.</i>	
5.4.1	<i>The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.</i>	 Yes
Comment	Hongqisheng has disclosed its shared water-related challenges and efforts made to address these challenges on its website: http://www.avaryholding.com/upload/file/2023-09-18/7d3888db-7933-4815-a38f-789e5104b14c.pdf	
5.4.2	<i>Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.</i>	 Yes
Comment	Hongqisheng has defined 22 April to 5 June of each year as its "Environmental Protection and Energy Saving Month". By using this opportunity, Hongqisheng will ask local stakeholders and government authorities to participate in the events and share shared water-related challenges and its efforts made to address these challenges. The 'Green Campus Trip' was held between April 22 and June 5, in the whole series of activities, more than 200 students had participated. The publicity campaign brings enormous social benefit in the catchment.	
5.5	<i>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.</i>	
5.5.1	<i>Any site water-related compliance violations and associated corrections shall be disclosed.</i>	 Yes
Comment	No water-related compliance violations occurred at the site to date. The check of publicly available documentation such as from websites of local ecology and environment bureau, water affairs bureau, and IPE, a famous NGO in China found no complaints and negative press coverage of the site.	
5.5.2	<i>Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.</i>	 Yes
Comment	No water-related compliance violations occurred at the site to date. The check of publicly available documentation such as from websites of local ecology and environment bureau, water affairs bureau, and IPE, a famous NGO in China found no complaints and negative press coverage of the site.	
5.5.3	<i>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.</i>	 Yes
Comment	No water-related compliance violations occurred at the site to date. The check of publicly available documentation such as from websites of local ecology and environment bureau, water affairs bureau, and IPE, a famous NGO in China found no complaints and negative press coverage of the site.	

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Photographic Evidence from Audit



Groundwater monitoring well .JPG



Bulletin board.JPG



Onsite ETP.JPG

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Rainwater discharge point label.JPG



Pure water system.JPG



Staff canteen.JPG



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Wastewater discharge point.JPG



General waste warehouses.JPG



The site gate.JPG



Hazardous waste warehouses.JPG

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Pure water dispenser.jpg

✔

Yes

Previous Findings

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

✔

Yes