

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-000819

SITE DETAILS

Site: **Qing Ding Precision Electronics (Huai'an) Co., Ltd**

Address: No.8, Pengding Road, Huai'an Economic and Technological Development Site, Jiangsu Province, 223005, P.R. CHINA

Contact Person: Frank Wu

AWS Reference Number: AWS-000238

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Platinum

Date of certification decision: 2023-Dec-20

Validity of certificate: 2026-Sep-08

AUDIT DETAILS

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

Audit Type(s): Re-Certification Audit

Audit Start Date: 2023-Oct-09

Lead Auditor: Ian Jiang (TUV Rheinland)

Audit team participants:

Lingyun Yu (TUV Rheinland)

Site Participants:

Mr. Wu, Environmental Manager

Mr. Hong, General affair manager

Mr.Song, Environmental supervisor

Ms.Wang, Environmental engineer

Ms. Zhou, Environmental engineer

Ms. Zhang, Environmental engineer

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ADDITIONAL INFO

Summary of Audit Findings: A total of four findings were raised during the re-certification audit, three minor non-conformities, one observation.

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□

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

The audit team recommends re-certification of Qing Ding Precision Electronics (Huai'an) Co., Ltd at Platinum level pending approval of the corrective actions plan.

The Client has successfully submitted the corrective action plan addressing all findings.

Scope of Assessment: The scope of services covers the recertification audit for assessing conformity of Qing Ding Precision Electronics Technology (Huai'an) Co., Ltd against the AWS International Water Stewardship Standard Version 2.

Qingding Precision Electronics (Huai'an) Co., Ltd. is located at No. 8 Pengding Road, Huai'an Economic and Technological Development Zone, Jiangsu Province. It is a wholly-owned subsidiary of Avary Holdings (Shenzhen) Co., Ltd. It mainly engages in the design, research and development, manufacturing, and sales of various printed circuit boards. The product types are FPC and MiniLED, used for 3C products such as mobile phones and consumer electronics. The annual production volume in 2022 is about 3 million square meters.

The audit was conducted onsite on 9th to 13th Oct. 2023. The onsite visit included the assessment of all facilities in the site, including production building, wastewater treatment plant, water purification system, dormitory and canteen.

The following external stakeholders were interviewed during the audit: employees, suppliers, community representative and Environmental Bureau.

SCORE

109.00

FINDINGS

Observation	1
Minor	3

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FINDING DETAILS

Finding No: TNR-007779
Checklist Item No: 1.3.2
Status: In Progress - CA plan approved
Finding level: Minor
Checklist item: Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped
Findings: The drawn water balance should continue to be refined, such as domestic water, water for different workshop, and water for different auxiliary facilities.
Corrective action: Cause analysis: The water balance report currently provided does not include domestic water, and the classification of other types of water use is incomplete

Corrective action: Identify the types and amounts of water used at the facility, and refine the water balance diagram.

Finding No: TNR-007781
Checklist Item No: 1.5.5
Status: In Progress - CA plan approved
Finding level: Minor
Checklist item: 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.
Findings: The factory has identified IWRAs in catchment, but the status of some areas has not been evaluated. It is recommended to search for information from management authorities of the IWRAs.
Corrective action: Cause analysis: Incomplete understanding of standards
Corrective action:
1. Review the AWS standard content.
2. Improve important water related areas (units) and supplement regional status information.

Finding No: TNR-007783
Checklist Item No: 4.1.1
Status: In Progress - CA plan approved
Finding level: Observation
Checklist item: Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.
Findings: The details of water management performance evaluation can continue to be enriched, such as adding typical activities, project introductions, and quantitative data of results.

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Finding No:	TNR-007784
Checklist Item No:	4.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
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 management performance in the relevant party survey questionnaire, so feedback from stakeholders did not fully reflect the evaluation of water management performance at the site.
Corrective action:	<p>Cause analysis: The consideration of the issue was not comprehensive, as the water management performance was publicly displayed on the official website, so the relevant parties did not directly provide on the questionnaires.</p> <p>Corrective action: When conducting subsequent stakeholder surveys, include water management performance content in the stakeholder survey questionnaire.</p>

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Report Details

Report	Value
Report prepared by	Ian Jiang
Report approved by	Lisa Seufert
Report approved on (Date)	15/12/2023

Surveillance

Proposed date for next audit
2024-Oct-09

Stakeholder Announcements

Date of publication	Location
20/07/2023	https://www.tuv.com/content-media-files/greater-china/about-us/downloads/terms-and-conditions-and-certification-regulations/aws-stakeholder-announcement-tuv-gd-qing-ding-precision-electronics-(huai'an)-co.-ltd_.pdf
27/07/2023	http://www.avaryholding.com/news.aspx?type=11&id=1329
20/07/2023	https://watersas.org/wp-content/uploads/2023/07/Stakeholder-Announcement-TUV-Rheinland-QingDing.pdf

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Catchment Information

Catchment Information

Qing Ding Precision Electronics Technology (Huai'an) Co., Ltd only used the municipal water which supplied by two municipal water plants. The main one is Huai'an Industrial Development Zone Municipal Water Plant, and the source is Old Yellow River. The backup water is from the South City Municipal Water Plant, and the water source is Two River. The Old Yellow River belongs to Old Yellow River sub-catchment and Two River belong to the Two River sub-catchment.

For discharged water, the rainwater is discharged into the municipal rainwater pipeline and then finally flows to Si Da Creek.

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 the treated wastewater is discharged to Huai'an Development Zone Wastewater Treatment Plant via municipal plant for further treatment. The wastewater will flow to Qing An River which belongs to Subei Irrigation Channel sub-catchment, and then finally goes to the Yellow Sea. The factory is located in the confluence point of a few sub-catchments including Old Yellow River sub-catchment, Two River sub-catchment, Subei Irrigation Channel sub-catchment and Hongze Lake.

All of these sub-catchments belongs to the Huaihe River Catchment. With 700km length and width 400km, Huaihe River catchment covered about 270 thousand km² across four provinces including Henan, Anhui, Jiangsu and Shangdong. Generally, it is divided into two basins, the north one is Yishusi basin, the south one is Huaihe River basin. Huai'an located at the downstream of Huaihe River basin, and its main water source are Old Yellow River and Two River. Due to natural factors and water conservancy projects, the water volume and quality are affected by multiple water body, including Huaishu River, Middle Canal, Hongze Lake and Yangtze River etc... The second source of water at the site, the Two River, is mainly affected by Hongze Lake, which not only receives water from the middle and upper reaches of the Huai River, but also from the East Route of the South to North Water Diversion Project.



catchment map.jpg

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Client Description and Site Details



1.1 site boundaries.png

Client/Site Background

Qingding Precision Electronics (Huai'an) Co., Ltd. is located at No. 8 Pengding Road, Huai'an Economic and Technological Development Zone, Jiangsu Province. It is a wholly-owned subsidiary of Avary Holdings (Shenzhen) Co., Ltd. It mainly engages in the design, research and development, manufacturing, and sales of various printed circuit boards. The product types are FPC and MiniLED, used for 3C products such as mobile phones and consumer electronics. The annual production volume in 2022 is about 300 million square meters.

Summary of Shared Water Challenges

Summary of Shared Water Challenges

Qingding has identified following shared water challenges:

Priority as high:

1. Water quality deterioration caused by pollutants such as N, P and heavy metals
2. Soil and Groundwater Contamination
3. Stricter standards for water use efficiency/pollution discharge

Priority as middle:

1. Extreme climate change such as flooding
2. Water Shortage

Increased water and wastewater costs




Priority as low:

1. 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 
Comment	The site(s) occupy one catchment.
0.1.1.2	<i>The scope of the proposed certification shall be under the control of a single management system.</i>
	Yes 
Comment	The scope of the proposed certification is under the control of a single management system.
0.1.1.3	<i>The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.</i>
	Yes 
Comment	The scope of the proposed certification is homogeneous with respect to primary production system, water management, product or service range, and the main market structures.

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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 The site has developed a Catchment Background Survey Report, and it contains Water-related Risks, Opportunities and Challenges, site layout, water supply (ultimate water source) and drainage diagram (final receiving water body), identified catchment and other information.

Qing Ding Precision Electronics Technology (Huai'an) Co., Ltd only used the municipal water which supplied by two municipal water plants. The main one is Huai'an Industrial Development Zone Municipal Water Plant, and the source is Old Yellow River. The backup water is from the South City Municipal Water Plant, and the water source is Two River. The Old Yellow River belongs to Old Yellow River sub-catchment and Two River belongs to the Two River sub-catchment.

For discharged water, the rainwater is discharged into the municipal rainwater pipeline and then finally flows to Qing An River.

The industrial effluent is treated by the onsite wastewater treatment plant, and domestic sewage is treated by septic tank. After the onsite treatment, all the treated wastewater is discharged to Huai'an Development Zone Wastewater Treatment Plant via municipal plant for further treatment. The wastewater will flow to Qing An River which belongs to Subei Irrigation Channel sub-catchment, and then finally goes to the Yellow Sea. The factory is located in the confluence point of a few sub-catchments including Old Yellow River sub-catchment, Two River sub-catchment, Subei Irrigation Channel sub-catchment and Hongze Lake.





All of these sub-catchments belong to the Huaihe River Catchment. With 700km length and width 400km, Huaihe River catchment covered about 270 thousand km² across four provinces including Henan, Anhui, Jiangsu and Shandong. Generally, it is divided into two basins, the north one is Yishusi basin, the south one is Huaihe River basin. Huai'an located at the downstream of Huaihe River basin, and its main water source are Old Yellow River and Two River.

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

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1.2.1	<p><i>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</i></p> <ul style="list-style-type: none"> <i>- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;</i> <i>- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;</i> <i>- Provide evidence of stakeholder consultation on water-related interests and challenges;</i> <i>- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;</i> <i>- Identify the degree of stakeholder engagement based on their level of interest and influence.</i> 	 Yes
Comment	<p>The site established a stakeholder identification procedure, and identified key stakeholders such as government, employees, clients, infrastructures, NGOs, surrounding factories and suppliers etc. The key contacts of different stakeholders were also specified. Stakeholder's water-related interests and challenges were collected during the engagement.</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>Current and potential degree of influence between site and stakeholder was identified through the engagement.</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>Qing Ding has developed several water-related incident response plans, including: Environmental Emergency Response Plan covering leakage accident; Special Emergency Response Plan for El Nino; a series of operation procedure for different water-related scenarios including water suspension, wastewater emergency and natural disasters etc..</p>	
1.3.2	<p><i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i></p>	 No
Comment	<p>Qing Ding has established a comprehensive metering system to record the water input and output daily. The inflows, losses, storage, and outflows was identified and mapped.</p> <p>Finding No: TNR-007779</p>	
1.3.3	<p><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></p>	 Yes
Comment	<p>Qing Ding has established a comprehensive metering system to record the water input and output daily. The inflows, losses, storage, and outflows were identified and mapped. The annual variance in water usage rates, was quantified.</p>	
1.3.4	<p><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></p>	 Yes

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Comment	Qing Ding installed the online monitoring system to monitor the discharged water, and conduct routine internal and external testing to control the quality of discharged water. For incoming water, drinking water, soil and groundwater, rainwater, the site also performed routine monitoring, the frequency is from monthly to annually. The auditor samples the testing reports, and the results of all water quality meet the standards.	
1.3.5	<i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i>	 Yes
Comment	The site has developed a layout map of potential pollutant sources which identified the sources such as chemical warehouse, hazardous waste warehouse and its locations. GME has updated its potential risk layout map, identified new potential risk area and added in the layout, such as dosing center and chemical tank storage area.	
1.3.6	<i>On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.</i>	 Yes
Comment	According to the site tour, no IWRA is identified in the site.	
1.3.7	<i>Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.</i>	 Yes
Comment	Qing Ding conduct the cost analysis monthly, which covered the water-related costs including municipal water cost, water purification and treatment cost, wastewater treatment cost, and AWS action cost etc.. The water-related revenues such as the selling of waste liquid like copper containing waste liquid or palladium containing waste liquid, were also covered.	
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	Water purifiers are installed at office buildings and all workshops, and regularly drinking water reports are attached next to the purifiers. The site counted the number of toilet pits, water taps, water dispensers and employees at the site and evaluated the level of compliance of its own sanitation facilities according to the industrial enterprise hygiene standard GBZ1-2010. The plant also used the WBSCD tool to evaluate the WASH level within the site. According to the evaluation results, the WASH level of the plant met the requirements.	
1.4	<i>Gather data on the site's indirect water use, including: its primary inputs; the water use embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be identified); and water used in out-sourced water-related services.</i>	
1.4.1	<i>The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.</i>	 Yes
Comment	Qing Ding 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, Qing Ding also evaluated the water related risk level in the catchment where its suppliers are located.	
1.4.2	<i>The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.</i>	 Yes
Comment	Based on the results and summary of the questionnaire provided by the site, Qing Ding conducted a questionnaire survey of outsourced service suppliers such as solid waste vendor to understand and quantify their water usage. The site did not have garment cleaning service providers. The transportation vendors did not have a car washing center, so the car washing is performed by driver randomly, making it unable to quantify.	

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1.4.3	<i>Advanced Indicator</i> <i>The embedded water use of primary inputs in catchment(s) of origin shall be quantified.</i>	 Yes
Comment	Qing Ding screened and identified the suppliers accounted for 5 percent of the cost, and then sent the questionnaires to investigate their indirect water consumption. By reviewing the water consumption investigation report for raw material vendor, the embedded water use of primary inputs such as copper foil, chemicals and auxiliaries are quantified. Total volume of embedded water is about 450 thousand ton.	
Score	7	
1.5	<i>Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH</i>	
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	The site developed a Background Survey Report. The site updated the water-related plans released by the governments, and the analysis yielded that the water-related special and key tasks carried out by the government include: establishing and strengthening the water resources constraint system. Rational allocation of water resources; strengthening the rural water supply projects; promoting industrial water conservation and emission reduction; and improving the flood control system.	
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	Qing Ding has established a legislation and regulatory requirement collection system named "Legal Knowledge Network", via the system Qing Ding can identify the catchment plan(s), water-related public policies, major publicly-led initiatives, and legal requirements.	
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>	 Yes
Comment	Qing Ding collected the water resource public report of Huai'an and water quality public report of Huai'an via the related authority website, which contained the water-balance and water quality information of the catchment. The water data includes precipitation, water resources, surface water, groundwater, water consumption, water storage, and water diversion etc..	
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	Qing Ding updated the water quality data of the catchment in 2022 according to the 2022 Jiangsu ecological and environmental status bulletin released by the government. The plant also collected data on drinking water quality, groundwater quality from Environmental Bureau's publishing website.	
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>	 No


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Comment Qing Ding collected the Huai He River Ecological Economic Belt Development Plan, Ecological, Environmental Protection Plan of Jiangsu Province and related documents, and those contained the IWRA in the catchment.


Finding No: TNR-007781

1.5.6 *Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.*  Yes

Comment The site collected the basic information of the water supply system, the basic information of the sewage treatment system, and the flood control and drainage emergency in Huai'an.


1.5.7 *The adequacy of available WASH services within the catchment shall be identified.*  Yes

Comment According to the Huai'an Economic Development Zone Planning Report, the Huai'an City has 5 municipal water plants and 20 wastewater treatment plants. Based on the Huai'an Statistical Yearbook, in Huai'an, the public water coverage rate is 100%, the wastewater Treatment Rate is 97.27%. It indicates that the WASH services in the Huai'an is advance.

1.5.8 *Advanced Indicator
Efforts by the site to support and undertake catchment level water-related data collection shall be identified.*  Yes

Comment Qing Ding rainwater discharge via the municipal pipeline, and flow to the Cheng Dong River which is not far from the site. To know the water quality of Cheng Dong River, Qing Ding has conduct the river's water quality testing on a monthly basis. Two monitoring points are selected which respectively located at downstream and upstream from the site. The testing parameters consist of pH, total copper, TP, COD and NH3-N. Also, Qing Ding will report the testing result to the Local Environmental Bureau.


Score 6

1.5.9 *Advanced Indicator
The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified.*  Yes

Comment By search on the Statistic Yearbook of different provinces, Qing Ding 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 *Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.*

1.6.1 *Shared water challenges shall be identified and prioritized from the information gathered.*  Yes

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Comment	Background Report for Water Risks, Opportunities and Challenges of Huaihe River Catchment in Huai'an City identifies 6 shared challenges in the catchment, and addressed initiatives are also established. The share challenges included: Priority as high: 1. Water quality deterioration caused by pollutants such as N, P and heavy metals 2. Soil and Groundwater Contamination 3. Stricter standards for water use efficiency/pollution discharge Priority as middle: 1. Extreme climate change such as flooding 2. Water Shortage Increased water and wastewater costs Priority as low: 1. Fragile ecosystem	
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	Background Report for Water Risks, Opportunities and Challenges of Huaihe River Catchment in Huai'an City identifies 6 shared challenges in the catchment, and addressed initiatives are also established.	
1.6.3	<i>Advanced Indicator Future water issues shall be identified, including anticipated impacts and trends</i>	 Yes
Comment	Qing Ding has collected data from study reports and Aquaduct tools to predict the future water demand and supply, anticipated impacts and trends in the of the Special Emergency Response Plan for El Nino.	
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	Qing Ding 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 analyzed 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	Qing Ding has identified its water risks in 12 respects covering water governance, sustainable water balance and water quality. Based on risk analysis, Qing Ding 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	Qing Ding has established a risk and opportunity identification sheet, and identify the opportunities, potential saving and related business opportunities. Such as participate the standard draft in the industry, participating the award selection of overnment to promote the internal water efficiency.	

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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	Qing Ding has established a best practise list to collect all best practice towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH.	
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	Qing Ding has established a best practise list to collect all best practice towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH.	
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	Qing Ding has established a best practise list to collect all best practice towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH.	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	Qing Ding has established a best practise list to collect all best practice towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH.	
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
Comment	Qing Ding has established a best practise list to collect all best practice towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH.	

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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	<i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i> <ul style="list-style-type: none"> - That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes - That the site implementation will be aligned to and in support of existing catchment sustainability plans - That the site's stakeholders will be engaged in an open and transparent way - That the site will allocate resources to implement the Standard. 	 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: Qing Ding is a subordinate of the Avary Holding Group)	
2.1.2	<i>Advanced Indicator</i> <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>	 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: Qing Ding 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	<i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i> <ul style="list-style-type: none"> - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies. 	 Yes
Comment	Qing Ding has established a procedure, named "Procedure for Compliance Evaluation of Laws and Other Requirements (ST-2B0-008)" to ensure the operation of Qing Ding to meet the provisions of relevant laws, regulations and other requirements. With the help of a third-party system, Qing Ding timely obtains updated information on laws and regulations, and conducts compliance evaluation on laws and regulations every six months and keeps records.	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	
2.3.1	<i>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</i>	 Yes

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Comment	<p>Qing Ding has developed a water stewardship strategy, which specifies that Qing Ding's water stewardship will follow the idea of "Avery 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>Qing Ding 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>	
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>Qing Ding 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>	
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.Qing Ding works with HongHengSheng Electronical Techonology (Huai'an) Co., Ltd. (Another Subordinate of Avery Holding Group) located in Huai'an Economic Development Zone, Jiangsu Province in the promotion of water management in accordance with the AWS standards.</p> <p>2.Qing Ding carries out the theme activity of "Environmental Protection and Energy Saving Month" every year. In April June 2023, Qing Ding 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>	
Score	4	
2.3.4	<p><i>Advanced Indicator</i></p> <p><i>The site's partnership/water stewardship activities with other sites in another catchment(s) (either under same corporate structure or with another corporate site) shall be identified.</i></p>	 Yes
Comment	<p>1.Avery Group led Qing Ding and its subsidiaries in different catchments (located in Shenzhen and Qinhuangdao) to jointly carry out actions to improve the environmental performance of its group and developed the "Avery Seven Greens" KPI, e.g. green innovation, green procurement, green production, green operation, green service, green recycling and green living,</p> <p>2.In May 2023, Qing Ding and other subsidiaries (Shenzhen and Qinhuangdao) 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.</p>	

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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. Qing Ding 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.

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 Qing Ding has identified its water risks covering water governance, sustainable water balance and water quality. Meanwhile, Qing Ding 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.

2.4.2 *Advanced Indicator*
A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.  Yes




Comment Qing Ding has developed a Special Emergency Response Plan for El Niño, which focuses on mitigation or adaption to water risks associated with climate change projections. The plan provides climate change projections regarding typhoon, rainstorm and extreme high-temperature based on the analysis of past events, introduces the early warning signals and risk factors of different events related to climate change and develops a response action plan. Meanwhile, 21 relevant public-sectors and infrastructure agencies are also identified and coordinated with. Their supports, capabilities and contact numbers are listed. Qing Ding also summarized its implementation of the Special Emergency Response Plan for El Niño in 2023.

Score 6

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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>Qing Ding actively cooperates with the government supervision department to conduct supervisory inspections and visits.</p> <p>Qing Ding actively participates in government organized meetings and initiatives on environmental protection related topics, such as the application and verification of "water-saving enterprises" and "Jiangsu Province's water efficiency leaders".</p> <p>Qing Ding regularly monitors the water quality of the nearby river Banzagan Channel, samples the river water 1000 meters away from the site on both sides of Banzagan Channel every month, and entrusts external agencies to test the water quality of the above areas every six months (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 Banzagan Channel every six months to monitor the impact of factory operation on river health. The testing parameters include pH, copper, nickel, cyanide, 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>Qing Ding organizes the theme activity of "Environmental Protection and Energy Conservation Month" every year to actively advocate catchment governance. For example, in May 2023, Qing Ding 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", Qing Ding can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Qing Ding 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 Qing Ding can assess its compliance status in time. No water-related non-compliance has happened in Qing Ding.</p>	
3.1.3	<i>Advanced Indicator Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified.</i>	 Yes
Comment	<p>Qing Ding has obtained the AWS Platinum certification since 2020. In addition, Qing Ding 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)"</p> <p>In addition, Qing Ding 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>Qing Ding continues to implement AWS standards and regularly updates and improves its water management related procedures. Qing Ding formulates, tracks, and reviews its Water Stewardship Plan annually to achieve its outcomes.</p>	
Score	2	

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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
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 8th in the IT/ICT industry.</p> <p>2. In August 2022, Qing Ding was awarded the "Green Development Leading Enterprise" honor jointly by the Jiangsu Provincial Department of Ecology and Environment and the Jiangsu Provincial Federation of Industry and Commerce, in recognition of the site's outstanding performance in environmental management, including topics such as water balance, water quality, water management, etc.</p> <p>3. In February 2023, Qing Ding was awarded the honor of "Excellent Enterprise in Ecological Environment Protection of Huai'an Economic and Technological Development Zone" by the Management Committee of Huai'an Economic and Technological Development Zone, in recognition of the site's contributions to environmental management, ecological protection, etc.</p> <p>4. In March 2022, Qing Ding was awarded the honor of "Huai'an 2022 Environmental Protection Demonstration Enterprise" by the Huai'an Ecological Environment Bureau.</p> <p>5. In March 29, 2021, Qing Ding was awarded the honor of "Leading Enterprise of Green Development" by Jiangsu Provincial Department of Ecology and Environment.</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>Qing Ding has established a procedure to ensure the operation of Qing Ding meet the provisions of relevant laws, regulations and other requirements.</p> <p>With the help of a third-party system, Qing Ding timely obtains updated information on laws and regulations, and conducts compliance evaluation on laws and regulations every six months and keeps records.</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", Qing Ding can identify applicable water-related legal and regulatory requirements in a timely manner. For example, Qing Ding 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 Qing Ding can assess its compliance status in time. No water-related non-compliance has happened in Qing Ding.</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.</p> <p>Qing Ding has set its annual water consumption target in accordance with the Cleaner 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>From January to June 2023, a total of 9 process improvement plans related to water balance were proposed and followed up.</p> <p>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.Qing Ding commissioned a third-party organization to conduct water balance testing in July 2023, and its water reuse rate was 95.18% 2.According to the Water Stewardship Plan (Year 2023), Qing Ding has set a target of "achieving 47% wastewater reuse rate for HB park ". Qing Ding tracks its wastewater reuse ratio every month. As of the on-site audit, the average monthly wastewater reuse ratio of the site is 51.55% 	
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>Qing Ding 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>From January to June 2023, a total of 9 process improvement plans related to water balance were proposed and followed up.</p> <p>Continuously improve the reuse ratio of water generated during the end cleaning process.</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 Qing Ding for the re-allocation of water to social, cultural or environmental needs.	
3.3.4	<i>Advanced Indicator The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified.</i>	 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>Qing Ding 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, Qing Ding 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>Status of progress towards meeting water quality targets set in the water stewardship plan is also identified.</p>	
3.4.2	<i>Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.</i>	 Yes
Comment	<p>For internal control, Qing Ding 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>	
3.5	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
3.5.1	<i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i>	 Yes
Comment	<p>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 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>The site regularly monitors the water quality of the nearby river Banzagan Channel, samples the river water 1000 meters away from the site on both sides of Banzagan Channel every month, and entrusts external agencies to test the water quality of the above areas every six months (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 Banzagan Channel every six months to monitor the impact of factory operation on river health.</p> <p>The testing parameters include pH, copper, nickel, cyanide, etc. According to the national soil environmental quality and agricultural land pollution risk control standard, GB 15618-2018.</p> <p>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. Restored areas may be outside of the site, but within the catchment.</i></p>	 No
Comment	The site does not perform this indicator.	
3.5.3	<p><i>Advanced Indicator</i></p> <p><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></p>	 No
Comment	The site does not perform this indicator.	

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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>Qing Ding 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. Qing Ding has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains</p> <p>Qing Ding also conducts WBCSD self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Qing Ding reached full point.</p> <p>Qing Ding 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 and "GBZ 1-2010 Hygienic standards for the design of industrial enterprises"</p> <p>Qing Ding conducts employee satisfaction survey every year, and collects employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.</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	<p>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 Qing Ding's employees, local community and local government authorities.</p>	
3.6.3	<i>Advanced Indicator A list of actions taken to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness shall be identified.</i>	Yes
Comment	<p>Qing Ding 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 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, Qing Ding donated hygiene supplies, such as hand sanitizer, disinfectant, masks, toothbrushes, etc to one neighboring school. 	
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	<p>The site does not perform this indicator.</p>	
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

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Comment	<p>Qing Ding 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 analyse their water risks. Qing Ding analysed their intensity of water consumption and water pollution. Meanwhile, by using WWF's map of water risk filter, Qing Ding also analysed their water risks. For suppliers with a high risk rating, Qing Ding conducts on-site environmental assessments to assess their environmental management level and performance, and follows up on their audit findings.</p> <p>Qing Ding regularly screened 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>Qing Ding 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.</p> <p>Qing Ding has also developed targets and promoted suppliers to carry out Pollutant Release and Transfer Register (PRTR) on the IPE platform. The factory 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>Qing Ding 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 factory has provided technical support to 34 suppliers.</p>	
3.7.2	<p><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></p>	 Yes
Comment	<p>Qing Ding regularly screened 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>Qing Ding 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.</p> <p>Qing Ding has also developed targets and promoted suppliers to carry out Pollutant Release and Transfer Register (PRTR) on the IPE platform. The factory 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>Starting from 2021, Qing Ding continues to promote and track suppliers' sustainability related actions (including water management). As of the fourth quarter of 2022, a total of 11 suppliers have responded to their sustainability actions, and a total of 21 improvement cases have been carried out, of which 7 are related to water.</p>	
3.7.3	<p><i>Advanced Indicator</i></p> <p><i>Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.</i></p>	 Yes
Comment	<p>Qing Ding regularly screened 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>Qing Ding has also developed targets and promoted suppliers to carry out Pollutant Release and Transfer Register (PRTR) on the IPE platform. The factory 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>Qing Ding 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 factory 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 8th in the IT/ICT industry.</p>	
Score	7	

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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>Qing Ding actively cooperates with the government supervision department to conduct supervisory inspections and visits.</p> <p>Qing Ding keeps close contact with local water-related infrastructure owners through many ways such as Onsite visits, Wechat, e-mail or phone call.</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>Qing Ding has obtained the AWS Platinum certification since 2020. In addition, Qing Ding 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)</p> <p>In addition, Qing Ding 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>Qing Ding continues to implement AWS standards and regularly updates and improves its water management related procedures. Qing Ding 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>Qing Ding underwent a clean production audit in 2021 and was rated the first-level.</p> <p>Qing Ding has formulated an internal sustainable water balance standard, which is equivalent to the first-level of cleaner production standard. Qing Ding evaluates its water performance every year and meets the internal control requirements for a long time.</p> <p>In addition, based on Qing Ding's water balance tested by third party in July, 2023, its water reuse rate is up to 95.18%, which far higher than the first level (≥55%) defined in the national "Cleaner Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008).</p>	
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	Yes
Comment	<p>Qing Ding 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. Qing Ding 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, Qing Ding 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 Qing Ding'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 more strict than government requirements.</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

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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>The site regularly monitors the water quality of the nearby river Banzagan Channel, samples the river water 1000 meters away from the site on both sides of Banzagan Channel every month, and entrusts external agencies to test the water quality of the above areas every six months (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 Banzagan Channel every six months to monitor the impact of factory operation on river health. The testing parameters include pH, copper, nickel, cyanide, 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>Qing Ding 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. Qing Ding has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains</p> <p>Qing Ding also conducts WBCSD self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Qing Ding reached full point.</p> <p>Qing Ding 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 and "GBZ 1-2010 Hygienic standards for the design of industrial enterprises"</p> <p>Qing Ding conducts employee satisfaction survey every year, and collects employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.</p>	
3.9.6	<i>Advanced Indicator Achievement of identified best practice related to targets in terms of good water governance shall be quantified.</i>	 Yes
Comment	<p>Qing Ding has obtained the AWS Platinum certification since 2020. In addition, Qing Ding has also formulated AWS management operating system procedures to standardize its water management.</p> <p>Qing Ding 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.</p> <p>In addition, Qing Ding 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>	
Score	8	
3.9.7	<i>Advanced Indicator Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.</i>	 Yes
Comment	<p>Qing Ding underwent a clean production audit in 2021 and was rated the first-level.</p> <p>Qing Ding has formulated an internal sustainable water balance standard, which is equivalent to the first-level of cleaner production standard. Qing Ding evaluates its water performance every year and meets the internal control requirements for a long time.</p> <p>In addition, based on Qing Ding's water balance tested by third party in July, 2023, its water reuse rate is up to 95.18%, which far higher than the first level (≥55%) defined in the national "Cleaner Production Standard for Printed Circuit Board Manufacturing (HJ-450-2008).</p>	
Score	8	

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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	For internal control, Qing Ding 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.	
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
Comment	<p>Qing Ding 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. Qing Ding has formulated maintenance procedures for drinking fountains and regularly entrusts manufacturers to clean, disinfect, replace filter elements, etc. for drinking fountains</p> <p>Qing Ding also conducts WBCSD self-assessment to evaluate the level of onsite WASH. According to the self-assessment results, Qing Ding reached full point.</p> <p>Qing Ding 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 and "GBZ 1-2010 Hygienic standards for the design of industrial enterprises"</p> <p>Qing Ding conducts employee satisfaction survey every year, and collects employees' satisfaction with WASH adequacy, and conducted satisfaction analyses.</p>	
Score	4	
3.9.11	<i>Advanced Indicator</i> <i>A list of efforts to spread best practices shall be identified.</i>	 Yes
Comment	<p>1. In 2023 (as of the audit date), Qingding received a total of 18 visits from external agencies, involving clients, governments, and industry representatives. Qingding shared its water management implementation experience and AWS standard system with them.</p> <p>2. On April 19, 2023, Qingding participated as a representative of the enterprise in the "Green Manufacturing Enterprise Experience Sharing and Exchange Conference" organized by the Huai'an Ecological Environment Bureau. Qingding shared its best practices in the field of water management. Participants include representatives from Huai'an Municipal Government, Water Resources Bureau, and enterprises</p> <p>3. In July 2022 and July 2023, at the "Green Manufacturing System Experience Sharing" seminar organized by the Huai'an Industry and Information Technology Bureau, Qing Ding shared its best practices in environmental management, water management, water balance, and water quality topics with the government and representatives of enterprises in the basin.</p>	
Score	3	
3.9.12	<i>Advanced Indicator</i> <i>A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be identified.</i>	 Yes

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Comment Qing Ding holds the Environmental Protection and Energy Conservation Month from April 22 to June 5 each year, and a series of collective actions are carried out.
For example:
- "Avery Cup" Huai'an Ecological Environment Public Welfare Photography Competition: Qing Ding, together with the Huai'an Ecological Environment Bureau, Huai'an Daily, and Huai'an 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

Score 10

3.9.13 *Advanced Indicator*
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.


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>	Q Obs.
Comment	<p>As per the Water Stewardship plan (2022), Honghengsheng has established 8 targets covered the water governance, water balance, water quality and WASH. Until the audit day, Qing Ding has complete:</p> <p>Established the AWS management system.</p> <p>Complete the survey of indirect water consumption of the suppliers.</p> <p>Perform environmental protection and energy conservation promotion activities to enhance employees and the public environmental awareness:</p> <p>Testing water quality of the neighbour river/creek.</p> <p>Improving water recycle rate</p> <p>Promoting water-saving solutions in the production process</p> <p>In 2022, the energy-saving project of Honghengsheng save about 100000 tons of tap water.</p>	
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>	✓ Yes
Comment	<p>Qing Ding analysed its costs and value creation resulting from the implementation of water stewardship plan. In 2022, Honghengsheng saved about 84 thousand RMB on water.</p>	
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>	✓ Yes
Comment	<p>The site identified the shared value benefits in the catchment, which included:</p> <ol style="list-style-type: none"> 1. Reuse of 10 thousand tons of wastewater 2. During Environmental Protection and Energy Conservation Month: <ul style="list-style-type: none"> External: Carry out 4 activities, covering estimated 4000 people for participation; Employees: Conducted 5 activities, covering more than 2000 people for participation. 	
4.1.4	<i>Advanced Indicator A governance or executive-level review, including discussion of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents shall be identified.</i>	✓ Yes
Comment	<p>The group sustainability responsible person joint the performance review meeting, and discussed of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents.</p>	
Score	4	
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
Comment	<p>No water-related emergencies and extreme events occurred at the site in recent years. Qing Ding has developed several water-related incident response plans, which contained the analysis and improvement procedure.</p>	

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4.3	<i>Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.</i>	
4.3.1	<i>Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.</i>	 No
Comment	Qing Ding performed an online satisfaction survey regarding its water stewardship. A Stakeholder Evaluation and Analysis Report in 2022 was generated. Finding No: TNR-007784	
4.3.2	<i>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.</i>	 N/A
Comment	The facility does not perform this indicator.	
4.4	<i>Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.</i>	
4.4.1	<i>The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.</i>	 Yes
Comment	The site has established the water stewardship plan of 2023, which incorporated the information and lessons learned from the management review of the WS performance in 2022.	

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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	The site discloses the AWS Sustainable Water Management Report on the official website. For information security reasons, the plant discloses an abbreviated version of the sustainable water management plan. http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.pdf	
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	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, is available on Avary Holding's website. http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.pdf	
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	Water stewardship performance summary is available on Avary Holding's website. Also the CSR and annual report will disclose the water stewardship performance. http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.pdf	
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	Water stewardship performance summary is available on Avary Holding's website. Also the CSR and annual report will disclose the water stewardship performance. http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.pdf	
Score	1	
5.3.3	Advanced Indicator Benefits to the site and stakeholders from implementation of the AWS Standard shall be quantified in the organization's annual report.	Yes
Comment	http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.pdf	
Score	1	

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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	Efforts to collectively address shared water challenges are available on Avary Holding's website. http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.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	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies are available on Avary Holding's website. http://www.avaryholding.com/upload/file/2023-10-09/574c1dfa-4417-4030-9a1a-324002ffa8c5.pdf	
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 violations in 2022. A procedure to manage non-conformance and related corrective action is developed.	
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 violations in 2022. A procedure to manage non-conformance and related corrective action is developed.	
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 violations in 2022. A procedure to manage non-conformance and related corrective action is developed.	

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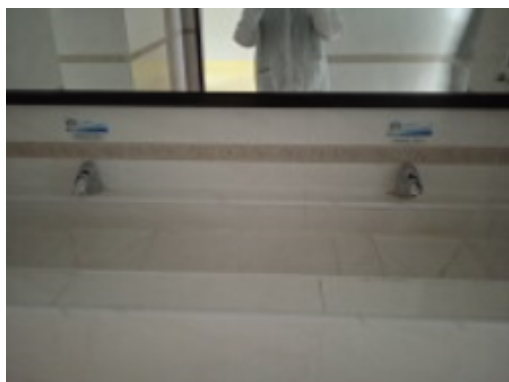
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Photographic Evidence from Audit



Chemical tank.jpg



SENSOR FAUCET.jpg



cooling tower.jpg

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discharge point.JPG



neighbour river.JPG



VCP.jpg

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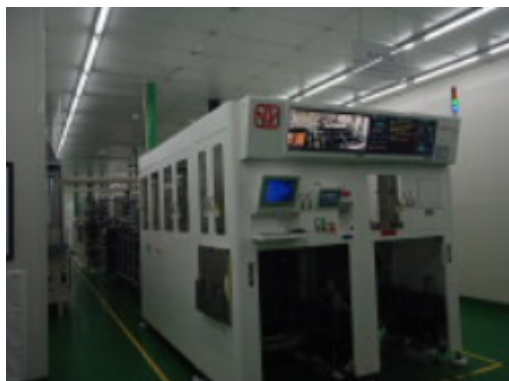
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drinking water.jpg



Wastewater treatment plant.JPG



electroplate;.jpg

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intelligent water monitoring system.JPG

Yes

Previous Findings

	<i>All non-conformities raised in the previous audit have been satisfactorily closed.</i>	Yes
Comment	Nil non-conformity was raised in the previous audit.	