

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-001317

SITE DETAILS

Site: **RI MING COMPUTER ACCESSORY(SHANGHAI)CO.,LTD.**

Address: NO.88 TINGHUA ROAD,TINGLIN TOWN JIN SHAN DISTRICT SHANGHAI CHINA,
201505, shanghai, Shanghai, P.R. CHINA

Contact Person: Joy Liu

AWS Reference Number: AWS-000653

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Platinum

Date of certification decision: 2024-Dec-11

Validity of certificate: 2027-Dec-10

AUDIT DETAILS

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

Audit Type(s): Initial Audit

Audit Start Date: 2024-Sep-12

Lead Auditor: Lingyun Yu

Audit team participants:

Lorry Long

Site Participants:

Yan Chen, Factory Engineer

Li Fangzheng, Factory Manager

Zhao Xinyuan, Factory Engineer

Zheng Jianhong, Sustainability Manager

Liu Huan, Factory Engineer

Feng Jidong, Production manager

Lv Chao, Factory Engineer

Wei Meixiang, Purchase manager

Ji Junchao, Energy Manager

Xiong Ling, Purchase manager

Luo Yuan, EHS Engineer

Qian Yatin, EHS Engineer

Dong Na, Factory Engineer

Yin Siwen, EHS Engineer

Wei Wenli, Factory Engineer

TUV Rheinland (Guangdong) Ltd.

No. 199 Kezhu RoadGuangzhou Science City/Guangzhou, UNITED

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ADDITIONAL INFO

Summary of Audit Findings: A total of 7 findings were raised during the certification audit, 0 major non-conformities, 2 minor non-conformities, and 5 observations.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 30 days of receipt of the audit report by 13/09/2024.

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

The audit team recommends certification of Ri Ming Computer Accessory (Shanghai) Co. Ltd. at the Platinum level pending approval of the corrective actions plan.

Scope of Assessment: The scope of services covers the Initial certification audit for assessing the conformity of Ri Ming Computer Accessory (Shanghai) Co. Ltd. against the AWS International Water Stewardship Standard Version 2.

Ri Ming Computer Accessory (Shanghai) Co. Ltd. (hereinafter referred to as "Riming") is located in Tinglin Industrial Zone, Jinshan District, Shanghai, established in April 2011, covering an area of 170 acres. It was completed and put into use in June 2012, engaged in the design, research, development, and production of precision cavity molds, metal product molds, non-metal product molds, and mold standard parts, providing precision metal structural parts and supporting production for computers, communications, consumer electronics, and other applications to major global customers. Currently, Riming has a total of 2,200 employees.

The audit was conducted onsite on September 12th-14th, 2024. The audit activities included the site visit covering production lines, wastewater treatment plant, chemical warehouse and IWRA, stakeholder interviews, and document review.

SCORE

95.00

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	5
Minor	2

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FINDING DETAILS

Finding No:	TNR-013448
Checklist Item No:	1.3.1
Status:	Open
Finding level:	Observation
Checklist item:	Existing water-related incident response plans shall be identified.
Findings:	During the site visit to M3 2F, it was observed that employees failed to take appropriate anti-leak measures while transporting and handling materials, leading to the spillage of cutting fluid on the ground in the machining area.
Finding No:	TNR-013449
Checklist Item No:	1.3.2
Status:	Open
Finding level:	Observation
Checklist item:	Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped
Findings:	The site plans to recycle rainwater; it is recommended to install water meters to measure the volume of rainwater collected and to update the water balance diagram promptly.
Finding No:	TNR-013450
Checklist Item No:	1.3.5
Status:	Open
Finding level:	Observation
Checklist item:	Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.
Findings:	The anti-spill measures at the entrance of the contaminated aluminum shavings (hazardous waste) storage area need to be strengthened, as there is a risk of waste liquids contaminating the stormwater drains.
Finding No:	TNR-014017
Checklist Item No:	1.5.3
Status:	Open
Finding level:	Observation
Checklist item:	The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.
Findings:	It is suggested that the site should try to get a more accurate water balance picture for the catchment in the future.

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Finding No:	TNR-014913
Checklist Item No:	1.5.5
Status:	Open
Finding level:	Observation
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 evaluation of the IWRA's status needs to include biodiversity factors.
Finding No:	TNR-013451
Checklist Item No:	4.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-13
Checklist item:	Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.
Findings:	The site communicated with the local environmental protection bureau and wastewater treatment infrastructure regarding its water stewardship performance for 2023, but did not involve other stakeholders such as communities, surrounding enterprises, water supply infrastructure, suppliers, employees, etc.
Corrective action:	The site plans to disclose its water stewardship performance for the year 2023 and add water stewardship performance information to stakeholder questionnaires. It will also seek opinions and suggestions from a wide range of stakeholders regarding water stewardship performance. In 2024, the site plans to use the updated survey questionnaire for stakeholder communication.

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Finding No:	TNR-012390
Checklist Item No:	5.2.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Sep-13
Checklist item:	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.
Findings:	The site communicated with the local environmental protection bureau, water supply infrastructure and wastewater treatment infrastructure regarding its water stewardship plan for 2024, but did not involve other stakeholders such as communities, surrounding enterprises, suppliers, employees, etc. to obtain broader feedback.
Corrective action:	The site plans to disclose its water stewardship plan for 2024, add water stewardship plan information to the stakeholder survey questionnaire, and seek opinions and suggestions from relevant parties regarding the water stewardship plan. In 2024, the site plans to use updated survey questionnaires for stakeholder communication.

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Report Details

Report	Value
Report prepared by	Lingyun Yu
Report approved by	Mia Antoni-Naidoo
Report approved on (Date)	11 December 2024

Surveillance

Proposed date for next audit
2025-Sep-13

Stakeholder Announcements

Date of publication	Location
22/06/2024	https://mp.weixin.qq.com/s/b93X6dwkwUf9UMYCNgziRQ
24/06/2024	https://a4ws.org/wp-content/uploads/2024/06/AWS-STAKEHOLDER-Announcement-Ri-Ming-Computer-AccessoryShanghai-Co.-LtdAWS-000653.pdf
24/06/2024	https://www.tuv.com/content-media-files/greater-china/about-us/downloads/management-systems/aws-stakeholder-announcement-ri-ming-computer-accessory(shanghai)-co.-ltd.pdf

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Catchment Information



Catchment boundary.png

Catchment Information

Ri Ming is located in No.88 Ting-Hua Road, Tinlin Town, Jinshan District, Shanghai, China. It is located in the Taihu Lake catchment.

The Taihu Lake catchment covers an area of 36900 square kilometers. Its administrative divisions include most of southern Jiangsu, Huzhou, Jiaxing and Hangzhou in Zhejiang, and most of Shanghai. The Taihu Lake catchment is dominated by plains, accounting for 4/6 of the total area, water surface for 1/6, and hills and mountains for 1/6. Facing the river and the coast on three sides, the western part is bounded by the Maoshan Mountains, Jieling, and Tianmu Mountains from north to south, and is adjacent to the Qinhuai River, Shuiyang River, and Qiantang River basins. The terrain features are high in the surrounding area and low in the middle. There are plains and depressions in the middle, including the Taihu Lake and small and medium-sized lakes in the east of the lake, and Tianmu Mountain, Maoshan Mountain and foothills in the west. The north, east, and south sides are affected by sedimentation at the mouth of the Yangtze River and Qiantang River, forming highlands along the river and coast, and the entire area forms a disc shape. The Taihu Lake catchment has a dense river network and numerous lakes, with a water area of 6134 square kilometers, a water surface ratio of 17%, and half of rivers and lakes. There are 189 lakes with an area of over 0.5 square kilometers. The total length of the river is 120000 km, with a density of 3.2 km/square kilometer in the plain area, crisscrossing and dotted with lakes, making it a typical "Jiangnan water network".

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Client Description and Site Details



Site boundary .png

Client/Site Background

Ri Ming Computer Accessory (Shanghai) Co. Ltd. (hereinafter referred to as "Ri Ming") is located at No.88 Ting-Hua Road, Tinlin Town, Jinshan District, Shanghai, China. It was established in April 2011 and covers an area of 170 acres. It was built and put into use in June 2012. Ri Ming is mainly engaged in the design, research and development, and production of precision cavity molds, metal product molds, non-metal product molds, and mold standard parts, providing global major customers with precision metal components and supporting production for applications in computers, communications, consumer electronics, and other industries. Currently, Ri Ming has a total of 2200 employees.

Ri Ming is located in Jinshan District, Shanghai, and its municipal tap water is supplied by Jinshan Water Supply Co., Ltd. The water source is Jinze Reservoir in the upper reaches of Huangpu River.

All water used by Ri Ming includes municipal water and recycled water. Domestic wastewater and pre-treated industrial wastewater are discharged into the municipal pipeline network and further treated by Shanghai Jinshan Drainage Engineering Co., Ltd. (Xinjiang Sewage Treatment Plant) Workshop 2 before being discharged into the deep sea into Hangzhou Bay.

Summary of Shared Water Challenges

Summary of Shared Water Challenges

Ri Ming faced with follow shared water challenges:




1. The requirements for water pollution prevention and control, water management, and ecological protection are becoming increasingly strict. level3
2. The cost of water use and drainage may increase. level 2
3. The intensification of climate change may lead to frequent extreme weather events. level 2
4. The rainwater drainage capacity in Jinshan District is insufficient, especially in the eastern part of Punan, where the backbone river is small, which is prone to floods. level 2
5. The local water resources are insufficient, and the per capita water resources are less than 40% of the whole country, so the assessment of water resources management is stricter. level 2
6. Municipal water supply pipe network is old, which affects the quality of municipal water supply. level 2

Meanwhile, based on the analysis of relevance/rationale for stakeholders and relevance/rational for the site, the site has prioritized the shared challenges. The risk level from low (Level 1) to high (Level 4). The level of risk is determined by attention, impact, and outcome.

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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 occupies 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.



Comment The site has developed a Background Investigation Report, and it contains the physical scope of the site. It contains:

- Map of site boundaries with the source of water supply and discharge points of wastewater and rainwater.
- Map of water-related infrastructures at the site such as pipeline, wastewater treatment plant.
- Map of water supply(Jinshan tap water co., ltd, main water supply infrastructure) and its ultimate water source (Jinze Reservoir in the Upper Reaches of Huangpu River)
- Map of municipal WWTP (Shanghai Jinshan Paihai Engineering Co., Ltd.) and its ultimate receiving water body (Deep-sea discharge to Hangzhou Bay).
- Map of catchment that the site affects and is reliant upon for water.

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.





Comment The site has established a Sustainable Water Management Operating Procedure, LK-RS-002, identification scope of stakeholders is clarified.
The site has identified stakeholders such as the government, employees, NGOs, surrounding residents, suppliers, infrastructures, and surrounding companies.
The site has developed an analysis table of stakeholders, and has established diversified communication channels with different stakeholders, such as phone calls, e-mails, meetings, questionnaires, visits, supplier reviews, and government official websites.
The site also consulted different types of stakeholders on the shared water challenge through questionnaires.

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1.2.2	<i>Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.</i>	 Yes
Comment	The site has developed an analysis table of stakeholders, the degree of influence between site and stakeholder has been identified of each stakeholder.	
1.3	<i>Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.</i>	
1.3.1	<i>Existing water-related incident response plans shall be identified.</i>	 Obs.
Comment	<p>The site has developed a comprehensive response plan for environmental emergencies, including special emergency response plans for chemical and hazardous waste leakage and its decontamination wastewater treatment, waste water pipeline leakage, which are all related to water. The plan was registered with Jinshan Ecological Environment Bureau, No.02-310116-2022-060-L.</p> <p>The site has prepared a comprehensive emergency plan for production safety, including response procedures for natural disasters (such as flood, rainstorm, typhoon and earthquake).</p> <p>The site has also developed a water cut-off emergency plan, identified the response process for sudden water supply anomalies such as water quality abnormalities, power outages, water supply pipeline leaks, water supply facility failures, and water storage facility leaks at the site. The site prepares an emergency drill plan every year, which includes all the drill needs planned for the year (including water-related emergency drills), and the drill topics, participants, drill time, etc. are defined.</p>	
1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>	 Obs.
Comment	<p>The site has established a comprehensive metering system to record the water input and output in real time.</p> <p>And the site also analyses the water consumption of each workshop every month and conducts performance evaluation on them. The site also developed a water balance map based on the data. The water balance map reflected the water inflows, losses, reuses and outflows.</p>	
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>The site installed various of intelligence sensor to collect the water volume data in real time, and summary the data at monthly basis. Therefore, the annual variance could be identified as well.</p> <p>The site also developed a water balance map based on the data. The water balance map reflected the water inflows, losses, reuses and outflows.</p>	
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

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Comment	<p>The site has developed a water quality monitoring inventory, which includes monitoring requirements for sewage, incoming water, drinking water, recycled water, and pure water for production, including monitoring points, monitoring methods, pollutant names, monitoring frequency, and control standards. For example:</p> <ul style="list-style-type: none"> - Industrial wastewater: <ul style="list-style-type: none"> • According to the requirements of the wastewater discharge permit, the site regularly entrusts a third-party laboratory to test the discharged wastewater • The site has installed online monitoring facilities at the wastewater discharge outlet to monitor pH, COD, ammonia nitrogen and TN. • Internal laboratory conducts daily testing of industrial wastewater discharge outlet and wastewater treatment processes - Domestic wastewater: <ul style="list-style-type: none"> • Domestic wastewater is tested by an external qualified laboratory once a year - Rainwater: <ul style="list-style-type: none"> • The site entrusts a third-party laboratory to test the water quality of rainwater outlets quarterly. - Drinking water <ul style="list-style-type: none"> • The site entrusts a third-party laboratory once a year to test the water quality of the secondary water supply in the site area. • The site provides employees with free drinking water, equipped with 46 water dispensers, and entrusts a third-party laboratory to test the quality of drinking water once a year, in accordance with the standard: Drinking Water Quality Standard, GB 5749-2022 <p>Environmental water quality</p> <ul style="list-style-type: none"> • The site regularly monitors the water quality of the river around the site boundary (Gujiabang River). The sampling points are located at two vertices of the site edge. Testing frequency: quarterly, with parameters including pH, DO, COD, ammonia nitrogen, and TP. The site also entrusts external laboratories to monitor the water quality of this river annually, with parameters including pH, DO, potassium permanganate index, COD, BOD, ammonia nitrogen, TP, and TN (surface water quality standards) 	
1.3.5	<i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i>	Q Obs.
Comment	<p>The site has established a chemical inventory, which includes information on the names, suppliers, uses, quantities, storage locations, quantities, and compatibility of the chemicals used on the site. And a map was drawn, identifying and marking the storage and use areas of chemicals.</p> <p>The site has compiled a inventory of rainwater pollution sources, identified potential sources of rainwater pollution, including sewage treatment stations, hazardous waste warehouses, chemical warehouses, chemical storage areas, wastewater storage tanks, and exhaust gas treatment facilities, and drew a distribution map of potential pollution sources.</p> <p>In addition, the site has also drawn diagrams of domestic and industrial wastewater pipelines, including the layout of the wastewater pipeline network, the location of septic tanks, wastewater treatment facilities, and the location of wastewater tanks.</p>	
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	As per site tour, document review and interview, no IWRA is within 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

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Comment	<p>The water-related costs sheet was provided for review, including</p> <ol style="list-style-type: none"> 1. Water supply invoice 2. Cost of wastewater discharge rights 3. Cost of Water/Wastewater Treatment (including electricity of pumps, consumables, depreciation and maintenance of facilities, etc.) 4. Water/wastewater/rainwater quality testing, peripheral water testing. Operation and maintenance of wastewater online testing facilities 5.AWS related expenses <p>The water-related revenues included: Income from frugal projects</p>	
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	<p>Sanitation and hygiene installations and water purifiers are installed at office buildings, and all workshops. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010).</p> <p>The site also conducts WBCSD self-assessment to evaluate the level of onsite WASH. The result is satisfied.</p> <p>The site has developed a drinking water management standard, LK-EHSI-55, which specifies the requirements for cleaning, water quality monitoring, maintenance, and filter replacement of drinking water facilities.</p> <p>The site has established cleaning standards for sanitation facilities, and cleaning personnel clean and maintain all sanitation facilities every day.</p>	
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	<p>The site identified and screened the top 50 suppliers with transaction amounts. And through the investigation questionnaires. The site analysed the water related risk level of suppliers by the intensity of water consumption, water management, environmental violation records, WWF water risk screening results.</p> <p>For suppliers within the catchment, in addition to the above information, the site also requires suppliers to provide wastewater discharge test reports.</p> <p>The total annual water consumption of the Top 50 suppliers is approximately 3.16 million tons. The indirect water consumption of raw materials associated with the site is approximately 90000 tons (based on data provided by the Top 50 suppliers)</p>	
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	<p>Ri Ming also collects the water consumption of its outsourced services such as hazardous waste and non-hazardous waste disposal units through questionnaires.</p>	
1.4.3	<i>Advanced Indicator The embedded water use of primary inputs in catchment(s) of origin shall be quantified.</i>	 Yes

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Comment	<p>The site identified and screened the top 50 suppliers with transaction amounts. And through the investigation questionnaires. The site analysed the water related risk level of suppliers by the intensity of water consumption, water management, environmental violation records, WWF water risk screening results.</p> <p>Via the data of suppliers' total water consumption, the production volume and production volume proportion, the site could calculate the embedded water use of the main suppliers. The total annual water consumption of the Top 50 suppliers is approximately 3.16 million tons. The embedded water use of materials is about 90000 tons by calculation (based on data provided by the Top 50 suppliers)</p>		
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	Water governance initiatives was identified in Catchment Background Survey Report by Ri Ming; The initiatives included national, provincial and local level, including the catchment development plan, industrial development plan, environmental and ecological conservation plan etc.		
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	The site presents a laws and regulations list that contains all legal actions. The document is used by the site to monitor the status of each of the site's legal obligations.		
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>		Obs.

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Comment	<p>The Catchment Background Survey Report provides a detailed analysis of the water balance for the catchment.</p> <p>The water balance in the catchment is analyzed based on the rainfall (mm), precipitation (m3), surface water resources (m3), groundwater resources(m3), water diversion (m3), displacement(m3), storage(m3), consumption(m3), total water supply (m3) and total water consumption(m3). All the data is collected from government websites and published reports. According to existing data, in 2022, the total annual local water resources in Shanghai were 3.308 billion cubic meters, including 2.755 billion cubic meters of surface runoff, 553 million cubic meters of non-overlapping groundwater and surface water resources, 311 cubic meters of annual per capita water resources, and 759.2 billion cubic meters of annual transit water. According to data from 2003 to 2022, surface water resources in Shanghai account for a large proportion of the total water resources and are an important source of local water resources. In 2022, the total amount of water resources in Shanghai was 3.308 billion cubic meters, including 2.755 billion cubic meters of surface water resources and 553 million cubic meters of non-overlapping groundwater and surface water resources</p> <p>The distribution of precipitation in Shanghai is uneven throughout the year. In 2022, the city's precipitation was mainly concentrated in the months of March, April, and September, accounting for 45.7% of the annual precipitation; October had the least precipitation, accounting for only 2.1% of the annual precipitation. Compared with the average of previous years, there is a significant decrease in precipitation from May to August and a significant increase in precipitation in March and April. Overall, the flood season tends to shift from summer to spring and autumn.</p> <p>In 2022, the total water intake in Shanghai was 7.676 billion cubic meters, of which surface water intake was 7.654 billion cubic meters, accounting for 99.7%; The groundwater intake is 1 million cubic meters, accounting for less than 0.1%. The water intake in Shanghai has significantly decreased since 2010, which is consistent with the trend of changes in per capita water resources.</p> <p>Overall, Shanghai has relatively low local water resources, sufficient transit water volume, and a lower per capita water resource ownership compared to the national average, making it a water-scarce area.</p>	
1.5.4	<p><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></p>	 Yes
Comment	<p>The Catchment Background Survey Report provides a detailed analysis of water quality for the catchment. The site obtained the related information from the government website. (Mainly from the Environmental and Ecological Bureau).</p> <p>The data includes the water quality of the water source, the main water bodies within the catchment, and the water from the municipal water plant.</p> <p>The data will be published monthly or annually, therefore, the annual variances could be identified.</p>	
1.5.5	<p><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></p>	 Obs.
Comment	<p>The Catchment Background Survey Report lists the Important Water-Related Areas of the catchment.</p> <p>The Important Water-Related Areas are collected from government-published documents, including 'Ecological protection red line of Shanghai', and 'Ecological environment zoning of three lines and one list'. The status of the IWRAs is collected from the management authorities.</p>	
1.5.6	<p><i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i></p>	 Yes

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Comment	The Catchment Background Survey Report lists 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	<p>The site obtained the WASH status in Shanghai City from the official report released by the authorities including the tap water penetration rate, wastewater treatment rate, and other data. Including:</p> <ol style="list-style-type: none"> 1. Water supply quality, based on drinking water quality information disclosed by Shanghai Jinshan Water Supply Co., Ltd since August 2014 2. Popularity rate of the water supply network. Based on the survey results of the Shanghai Jinshan District Master Plan and Land Use Master Plan (2017-2035) 3. Safety of the water supply network, based on monitoring data of the water supply network disclosed by Shanghai Jinshan Water Supply Co., Ltd since October 2014 4. Sewage collection and treatment, based on the municipal sewage centralized treatment rate data disclosed in the Shanghai Jinshan District Master Plan and Land Use Master Plan (2017-2035) 5. Public health and personal hygiene facilities, based on the progress of promoting the harmless treatment of rural toilet manure in the Shanghai Ecological Space Construction and Urban Environment Optimization "14th Five-Year Plan" 	
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	<p>The site regularly monitors the water quality of the river around the site boundary (Gujiabang River). The sampling points are located at two vertices of the site edge. Testing frequency: quarterly, with parameters including pH, DO, COD, ammonia nitrogen, and TP. The site also entrusts external laboratories to monitor the water quality of this river annually, with parameters including pH, DO, potassium permanganate index, COD, BOD, ammonia nitrogen, TP, and TN (surface water quality standards)</p> <p>The test report is shared with stakeholders such as municipal wastewater treatment infrastructure, water supply infrastructure and surrounding enterprises.</p>	
Score	6	
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	The site 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 site conducted questionnaire surveys and on-site visits with stakeholders to solicit their opinions on the shared water challenge, and summarized the attention of various stakeholders to water related topics in the catchment.


The Catchment Background Report identifies the shared challenges within the catchment, including:

1. The requirements for water pollution prevention and control, water management, and ecological protection are becoming increasingly strict. level3
2. The cost of water use and drainage may increase. level 2
3. The intensification of climate change may lead to frequent extreme weather events. level 2
4. The rainwater drainage capacity in Jinshan District is insufficient, especially in the eastern part of Punan, where the backbone river is small, which is prone to floods. level 2
5. The local water resources are insufficient, and the per capita water resources are less than 40% of the whole country, so the assessment of water resources management is stricter. level 2
6. Municipal water supply pipe network is old, which affects the quality of municipal water supply. level 2

Meanwhile, based on the analysis of relevance/rationale for stakeholders and relevance/rational for the site, the site has prioritized the shared challenges. The risk level from low (Level 1) to high (Level 4). The level of risk is determined by attention, impact, and outcome.


1.6.2 *Initiatives to address shared water challenges shall be identified.*  **Yes**

Comment In response to the aforementioned shared water challenges, the site has identified measures to address them, including the public initiatives and site's action plan.

1.6.3 *Advanced Indicator*
Future water issues shall be identified, including anticipated impacts and trends  **Yes**


Comment The site analyzed the trends in population changes, agricultural, industrial, and domestic water use changes, climate, and ecological environment changes within the catchment by querying reports published by government or academic institutions. And based on research reports and WWF, WRI water risk analysis models, predictions were made for future water issues in the catchment. Overall, by 2030, climate change is intensifying, which may lead to frequent extreme weather events. The shortage of water resources is predicted to be aggravated, and the overall quality of surface water may be slightly improved.

Score 3

1.6.4 *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.  **No**

Comment The facility does not perform this indicator.

1.7 *Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends identified in 1.6.*

1.7.1 *Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.*  **Yes**

Comment The site identified its water risks and summarized in a spreadsheet. They categorized the water risk into physical risk, regulatory risk and reputation risk. The spreadsheet that lists the water risks faced by the site. The site scored the frequency of the risk and severity of the impact, and then multiple two scores to evaluate the level of the risk. The potential costs, business impact and control measures are also included in the spreadsheet.

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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	The site has identified six major business opportunities considering how the site may participate. The potential value includes cost saving, image enhancement, sustainability of enterprise operation, and customer trust, and ranked their importance.	
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>Ri Ming has identified relevant catchment best practice for water governance including:</p> <ul style="list-style-type: none"> • Collaborate with peer organizations and stakeholders to promote sustainable water management; • A comprehensive water stewardship plan that is routinely reviewed and updated; • Training of employees on the principles of water stewardship; • Engaging with peer organizations and stakeholders to promote water stewardship; • Communicating on its own water stewardship to set a leading example to others. • Publicly disclose water and water quality data, demonstrate organizational support for good water governance and sustainable management to appropriate regulatory authorities, including establishing or participating in public-private partnership projects 	
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>The site has identified relevant sector and/or catchment best practice for water balance including:</p> <ul style="list-style-type: none"> • Carry out water balance test according to national recommended standard GB/T 12452. • Reuse rate of production water in the entire factory, $\geq 80\%$ • Install water efficient fittings, for example for toilets, washrooms, equipment washing facilities, bath installations, etc. • Classify industrial wastewater with different concentrations to improve wastewater treatment efficiency and wastewater reuse ratio. • Establish a water management system by using the digital water meter network to monitor the water consumption and trends of various departments and production lines in real time. 	
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>The site has identified relevant sector and/or catchment best practice for water quality, such as:</p> <ul style="list-style-type: none"> • Zero discharge of wastewater containing heavy metals (Ni, Cr). • Using the latest technology to recover waste acid from the production process and reduce the load on the wastewater treatment station. • Formulate internal control standards stricter than discharge permit for industrial wastewater. 	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	The site has identified best practices related to Important Water Related Areas (IWRA). Such as water quality monitoring of neighbour river, or carrying out dredging, ecological restoration, treatment of sewage outlets, and interception of pollutants along key rivers.	
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
 - Timely disclose the results of drinking water quality testing, maintain records, etc., to ensure that employees can obtain direct drinking water with confidence.

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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 the top manager of Ri Ming. The commitment includes all the necessary element and has been displayed on its official WeChat account.	
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 the top manager of Ri Ming. The commitment includes all the necessary element and has been displayed on its official WeChat account. https://mp.weixin.qq.com/s/g3fnXFKoVp2CUyw6HiJxcg	
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	Ri Ming disclosed the information of its water management organizational structure and members of the compliance responsible team on its official WeChat account. Ri Ming has prepared its own sustainable water stewardship operation procedure, LK-RS-002, which defines the water management responsibilities of each department. Ri Ming has also established a procedure to ensure the operation of Ri Ming meet the provisions of relevant laws, regulations and other requirements, LUXCASE-EHSP-16.	
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>Ri Ming has developed a water stewardship strategy and announced it on its official WeChat account.</p> <p>The strategy expounds Ri Ming's long-term plan for water stewardship in terms of standardized management, corporate social responsibility and implementation of best practices, including:</p> <ul style="list-style-type: none"> • Establish scientific and sustainable water management system, enhance and improve water management level and ability, improve employees' water-saving awareness; • Set total water consumption and water efficiency indicators, vigorously promote the water-saving technologies renovation, actively introduce water-saving processes, technology and equipment, continue to improve the utilization of water resources; • Reduce wastewater discharge and the total amount of pollutants, optimize wastewater reuse and zero discharge facilities, improve wastewater reuse rate and reduce wastewater discharge; Set internal drainage standards that exceed regulations requirements, reduce the pollution amount; • Help to protect the water environment in the watershed, support and complement water resource security planning in watershed, improve communication and disclosure with external stakeholders • Promote sustainable water management principle, assist and promote other enterprises to establish sustainable water management system. 	
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>Ri Ming has developed a Water Stewardship Plan (Year 2023), which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc.</p> <p>The Water Stewardship Plan is associated with five main outcomes of AWS, including good water governance, sustainable water balance, good water quality status, IWRA and WASH, such as:</p> <ul style="list-style-type: none"> • Complete the establishing of AWS system. • Improve staff's water management awareness through training • Improve the indirect water use performance of the site by carrying out water management training for suppliers and promoting them to remove IPE violation records • Through continuous process improvement, the total water consumption per unit product in 2023 should decrease by 5% compared to 2022. • The quality of the discharged wastewater meets 100% of the internal control requirements of the site, and the wastewater internal control index of Riming is lower than the wastewater discharge permit requirements. • Use WBCSD to evaluate the WASH of the site and the final result received above 90%. • Monitor the water quality of the site IWRA, Gujiabnag River which next to the site, conduct monitoring quarterly by internal and trust external agencies to test the water quality yearly. • Carry out at least 1 river patrol activity and 1 clean water activity each year. 	
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

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Comment	In 2024, Ri Ming as an organizer, organized two 'river patrol' activities with stakeholders in Gujiabang River and Jinshui Lake respectively, and provided the activity records for review. In August 2024, Ri Ming donated drinking and washing supplies to Tinglin Fire Rescue Station and publish 'Purify water and protect water source'. In December 2023, Ri Ming conducted a sharing seminar on sustainable water stewardship to share its experience in carrying out AWS with brother companies (1 in the same catchment and 2 in another catchments). The training materials and records were provided for review. In December 2023, Ri Ming also shared good practice of water saving and wastewater treatment during online meeting to with brother companies (1 in the same catchment and 2 in another catchments). The training materials and records were provided for review.	
Score	4	
2.3.4	Advanced Indicator <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>	Yes
Comment	In December 2023, Ri Ming conducted a sharing seminar on sustainable water stewardship to share its experience in carrying out AWS with brother companies (1 in the same catchment and 2 in another catchments). The training materials and records were provided for review. In December 2023, Ri Ming also shared good practice of water saving and wastewater treatment during online meeting to with brother companies (1 in the same catchment and 2 in another catchments). The training materials and records were provided for review.	
Score	4	
2.3.5	Advanced Indicator <i>Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which stakeholders are involved shall be identified.</i>	Yes
Comment	Ri Ming visited government departments (including Ecologic and Environmental Protection Bureau, Water Affairs Bureau...) and wastewater treatment service provider, freshwater service provider, shared the water management plan, and the stakeholders expressed its approval and support. For example, Water Affairs Bureau stated that the government's focus on water conservation has shifted from increasing supply to putting more emphasis on demand management, strictly controlling total water use and improving water efficiency. Ri Ming would play an exemplary role. The government conduct monitoring in rivers, lakes and groundwater in real time and public the water source information, intelligence forecasting, and water resources work timely, so that the water source protection work could be conducted continuously.	
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	Ri Ming has identified its water risks, and corresponding strategies to mitigate water risks are developed. The site developed these via study of the government's water-related plan or consultation with the government. Ri Ming has established Emergency environmental emergency plan, it states the emergency environmental emergency process and business continuity strategy, the content covers chemical leakage, wastewater, solid waste, emergency shutdown, water shutdown, power outage, gas shutdown, storm weather emergency environment, etc. and the plan was registered in Shanghai City Jinshan District Ecological and Environmental Bureau.	

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

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3 STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts	
3.1	Implement plan to participate positively in catchment governance.
3.1.1	Evidence that the site has supported good catchment governance shall be identified. ✓ Yes
Comment	<p>1. Ri Ming actively cooperates with the government supervision department to conduct supervisory inspections and visits and reports their water use quantity to government monthly.</p> <p>2. Ri Ming actively attends the water saving training organized by local government and shared their water saving experience in Jinshan District Large waste use companies waster saving training in 2024.</p> <p>3. Ri Ming monitors the water quality of the Gujiabang River next to the facility. The site invites third agencies to test to conduct sampling and testing every year months at downstream and upstream of the site (test parameters include pH, DO, permanganate index, COD, BOD5, TN, TP, and NH3-N, a total of 8 parameters), in accordance with the national standard: Surface Water Environmental Quality Standard GB 3838-2002. Ri Ming also monitors the water quality of the Gujiabang River by themselves quarterly (test parameters include COD, TOC, TDS, pH, UV275, EC).</p>
3.1.2	Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented. ✓ Yes
Comment	The water rights are respected under legal and regulatory mechanisms, and there is no indigenous people in the catchment area.
3.1.3	Advanced Indicator Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified. ✓ Yes
Comment	<p>1. Ri Ming has developed its own sustainable water stewardship operation procedure, LK-RS-002, to standardize its water management activities.</p> <p>2. Ri Ming has established an Environment and Water Stewardship Committee to coordinate its environmental and water management related affairs. An organization chart of the environment and water stewardship management team established, including the manager representative of the water stewardship and the responsible department.</p> <p>3. On 20 December 2023, Ri Ming invited a third party to carry out a one-day training onsite on sustainable water stewardship to improve water management system.</p> <p>4. On 7 September 2023, Ri Ming had participated in a one-day online training onsite on sustainable water stewardship to improve water management system which conducted by a third party.</p>
Score	2
3.1.4	Advanced Indicator Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water governance of the catchment shall be identified. ✓ Yes
Comment	<p>1. In 2019, Ri Ming was awarded the honor of "2018 (The third batch) Green Factory Demonstration" by Shanghai City Economic and Information Committee and invited a third company to conduct surveillance audit in October 2023.</p> <p>2. In 2022, Ri Ming was awarded the honor of "2021 Shanghai City Water Conservation Demonstration (Benchmarking) Enterprise" by Shanghai Water Affair Bureau and Shanghai City Economic and Information Committee.</p> <p>3. Since 2017, Ri Ming has participated in the client's "Clean Water Program" and had completed the program which approved by the client in June 2018.</p>
Score	2

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3.2 *Implement system to comply with water-related legal and regulatory requirements and respect water rights.*

3.2.1 *A process to verify full legal and regulatory compliance shall be implemented.*



Comment Ri Ming has established a procedure to ensure the operation of Ri Ming meet the provisions of relevant laws, regulations and other requirements.
Ri Ming timely obtains updated information on laws and regulations and conducts compliance evaluation on laws and regulations every year and keeps records.
Ri Ming has established a Compliance Obligation Identification and Appraisal Management Procedure, which provides for the evaluation of compliance on a yearly basis and provides updated assessment forms and assessment reports.
According to Institute of Public and Environmental Affairs platform (a well-known environmental information disclosure platform in China) and monitoring reports, the facility operated in accordance with laws and regulations.

3.2.2 *Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented.*



Comment Ri Ming has established a procedure to ensure the operation of Ri Ming meet the provisions of relevant laws, regulations and other requirements.
Ri Ming timely obtains updated information on laws and regulations and conducts compliance evaluation on laws and regulations every year and keeps records.
The site has developed a water quality monitoring plan, including rainwater, discharged industrial wastewater, discharged domestic wastewater to ensure that the drainage water quality and pollutant concentrations in groundwater and soil meet the requirements of laws and regulations. A brief summary of monitoring point information and monitoring frequency is as follows:
• Discharged industrial wastewater
1. Ri Ming has established water quality pollution management regulations, which include monitoring requirements for discharged industrial water quality, including parameters and frequency.
2. Ri Ming has invited a third party to monitor the parameters (pH, SS, Chromaticity, COD, Petroleum, NH3-N, Anionic surfactant, TP, TN, BOD5) every month and installed online monitoring facilities at the industrial wastewater discharge outlet to monitor the parameters (pH, flow rate, COD, TP, TN, NH3-N, TOC) of the discharged wastewater in real time.
• Discharged domestic wastewater
Ri Ming has invited a third party to monitor the parameters (pH, SS, Chromaticity, COD, Petroleum, NH3-N, Anionic surfactant, TP, TN, BOD5, animal and vegetable oils) of discharged domestic wastewater.
• Rainwater discharge
Ri Ming has invited a third party to monitor the pH, SS, Chromaticity, COD, BOD5, Petroleum, Anionic surfactant, NH3-N, TP, TN, animal and vegetable oils of rainwater every three months.

3.3 *Implement plan to achieve site water balance targets.*




3.3.1 *Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.*



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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>1. Ri Ming has set an annual target of water usage is less than the government's water abstraction limits of 853,900 tons/year for 2023 in its WSP and tracks the progress of its water usage target on a monthly basis.</p> <p>2. Ri Ming has set targets for water consumption per unit of output and water consumption per unit of product were reduced to be 5% compared to 2022 in its WSP. The site tracks its water consumption per unit product on a monthly basis.</p> <p>3. Ri Ming has set targets for wastewater recycling rate to be 53% in its WSP, the site tracks its water use of each production line monthly.</p> <p>Status of progress towards meeting water balance targets set in the water stewardship plan is also identified by the site. Ri Ming tracks water use, water consumption per unit of output and water consumption per unit of product monthly and tracks wastewater recycling rate semi-annually. As of 2023, the total water usage was 330,369 tons, the water consumption per unit of output reduced 21% compared to 2022, water consumption per unit of product reduced 19% compared to 2022, wastewater recycling rate was 56%.</p>	
3.3.2	<p><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></p>	 Yes
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>1. Ri Ming has set an annual target of water usage is less than the government's water abstraction limits of 853,900 tons/year for 2023 in its WSP and tracks the progress of its water usage target on a monthly basis.</p> <p>2. Ri Ming has set targets for water consumption per unit of output and water consumption per unit of product were reduced to be 5% compared to 2022 in its WSP. The site tracks its water consumption per unit product on a monthly basis.</p> <p>3. Ri Ming has set targets for wastewater recycling rate to be 53% in its WSP, the site tracks its water use of each production line monthly</p> <p>Ri Ming has developed a proposal for improving water balance in 2023, with a total of 5 improvement measures approved, involving topics such as optimizing production processes to save water consumption and improve wastewater utilization, such as:</p> <p>1. Install electromagnetic valve in pure water tank in grinding and cleaning machine, changed overflow from manual overflow to electromagnetic valve auto-overflow to reduce the water use.</p> <p>2. Install recycling equipment and reused the RO concentrated water for washing toilet to reduce the use of fresh water.</p> <p>3. Add UF equipment in wastewater treatment plant and expanded the wastewater treatment plant, recycling the qualified wastewater treated after biochemical treatment to product pure water to reduce the use of fresh water.</p> <p>Status of progress towards meeting water balance targets set in the water stewardship plan is also identified by the site. Ri Ming tracks water use, water consumption per unit of output and water consumption per unit of product monthly and tracks wastewater recycling rate semi-annually.</p> <p>According to the data statistics and analysis records provided by the site, as of 2023, the total water usage was 330,369 tons, the water consumption per unit of output reduced 21% compared to 2022, water consumption per unit of product reduced 19% compared to 2022, wastewater recycling rate was 56%.</p>	
3.3.3	<p><i>Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.</i></p>	 Yes
Comment	<p>No legally-binding documentation is issued by local government authorities to the site for the re-allocation of water to social, cultural or environmental needs.</p>	
3.3.4	<p><i>Advanced Indicator</i> <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

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Comment The site does not perform this indicator.

3.4 Implement plan to achieve site water quality targets

3.4.1 Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.



Comment A series of water stewardship plans are implemented to achieve the site's water quality targets. According to the water quality monitoring plan, the site entrusts a third-party laboratory to test its various water quality. According to the test report and analysis record provided by the site, the water quality is 100% in line with its internal control standard.

1. Ri Ming has developed a water quality monitoring plan and commissioned third-party laboratories to test the water quality of various sources, including drinking water, secondary water supply systems, discharged industrial wastewater, discharge domestic wastewater, rainwater and Gujiabnag River which next to the site.
2. Ri Ming has installed a series of online water quality detection systems to monitor inflow and outflow in real-time, such as monitoring CI (conductivity) at the tap water inlet, to ensure that the incoming water meets the water quality requirements of the Ri Ming pure water preparation system; Monitor NH3-N, TP, COD, pH, TN, TOC at the total wastewater discharge outlet.
3. Ri Ming has formulated the operation standards of industrial wastewater treatment facilities to standardize the wastewater treatment process and has kept the daily operation and maintenance records for tracking the operation status of wastewater treatment facilities.
4. Ri Ming has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are stricter than the discharge permit. The specific details are as follows: Internal control index of discharged wastewater: pH: 6.5-8.5, COD 220 mg/L, TN 35 mg/L; NH3-N 20 mg/L (Permit requirements: DB31/199-2018 Shanghai Sewage Comprehensive Emissions Standard Level 3 standard: pH: 6.0-9.0, Chromaticity: 64, SS: 400 mg/L, BOD5: 300 mg/L, COD: 500 mg/L, TN: 70 mg/L, NH3-N: 45 mg/L, TP: 8mg/L, Petroleum: 15 mg/L; Anionic Surfactant: 20 mg/L)
5. Ri Ming has also set an annual target of the total wastewater discharged amount was less than 14.45 ton per 10,000 yuan of value-added by industry and total discharged COD amount was less than 1.77 kg per 10,000 yuan of value-added by industry to address the shared water challenges within the catchment. Ri Ming monitors the total wastewater discharged and total discharged COD quarterly and has developed a series of implementation plans. Including: optimizing the ETP treatment process and add the wastewater reuse rate. The site tracks the progress of its Water Stewardship targets regularly. Ri Ming 1) achieved 100% of the internal control targets by 2023 and 2024; 2) 99.5% water produced by the pure water system meet the standard by 2023; 3) the domestic wastewater is 100% in line with discharge requirements; 4) the total wastewater discharged amount was 0.76 ton per 10,000 yuan of value-added by industry and total discharged COD amount was 0.01 kg per 10,000 yuan of value-added by industry by 2023.

3.4.2 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.



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Comment According to the water quality monitoring plan, the site entrusts a third-party laboratory to test its various water quality. According to the test report and analysis record provided by the site, the water quality is 100% in line with its internal control standard.

1. Ri Ming has developed a water quality monitoring plan and commissioned third-party laboratories to test the water quality of various sources, including drinking water, secondary water supply systems, discharged industrial wastewater, discharge domestic wastewater, rainwater and Gujiabnag River which next to the site.

2. Ri Ming has installed a series of online water quality detection systems to monitor inflow and outflow in real-time, such as monitoring CI (conductivity) at the tap water inlet, to ensure that the incoming water meets the water quality requirements of the Ri Ming pure water preparation system; Monitor NH3-N, TP, COD, pH, TN, TOC at the total wastewater discharge outlet.

3. Ri Ming has formulated the operation standards of industrial wastewater treatment facilities to standardize the wastewater treatment process and has kept the daily operation and maintenance records for tracking the operation status of wastewater treatment facilities.

4. Ri Ming has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are stricter than the discharge permit. The specific details are as follows: Internal control index of discharged wastewater: pH: 6.5-8.5, COD 220 mg/L, TN 35 mg/L; NH3-N 20 mg/L (Permit requirements: DB31/199-2018 Shanghai Sewage Comprehensive Emissions Standard Level 3 standard: pH: 6.0-9.0, Chromaticity: 64, SS: 400 mg/L, BOD5: 300 mg/L, COD: 500 mg/L, TN: 70 mg/L, NH3-N: 45 mg/L, TP: 8mg/L, Petroleum: 15 mg/L; Anionic Surfactant: 20 mg/L)

5. Ri Ming has also set an annual target of the total wastewater discharged amount was less than 14.45 ton per 10,000 yuan of value-added by industry and total discharged COD amount was less than 1.77 kg per 10,000 yuan of value-added by industry to address the shared water challenges within the catchment. Ri Ming monitors the total wastewater discharged and total discharged COD quarterly and has developed a series of implementation plans. Including: optimizing the ETP treatment process and add the wastewater reuse rate. The site tracks the progress of its Water Stewardship targets regularly.

A series of water stewardship plans are implemented to achieve the site's water quality targets. According to the water quality monitoring plan, the site entrusts a third-party laboratory to test its various water quality. According to the test report and analysis record provided by the site, the water quality is 100% in line with its internal control standard.

Ri Ming has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are stricter than the discharge permit. The specific details are as follows: Internal control index of discharged wastewater: pH: 6.5-8.5, COD 220 mg/L, TN 35 mg/L; NH3-N 20 mg/L and achieving 100% of the internal control targets by 2023 and 2024.

Ri Ming has strengthened the operation and maintenance of pure water system to ensure that the quality of pure water reaches the set standard stably, 99.5% water produced by the pure water system meet the standard by 2023.

Ri Ming has conducted quarterly maintenance of grease trap and septic tank to ensure stable discharge of domestic wastewater, the domestic wastewater is 100% in line with discharge requirements.

The total wastewater discharged amount was 0.76 ton per 10,000 yuan of value-added by industry and total discharged COD amount was 0.01 kg per 10,000 yuan of value-added by industry by 2023.

3.5 *Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.*

3.5.1 *Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.*








Yes

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Comment	<p>1. Ri Ming monitors the water quality of the Gujiabang River next to the facility. The site invites third party agencies to conduct sampling and testing every year at downstream and upstream of the site (test parameters include pH, DO, permanganate index, COD, BOD5, TN, TP, and NH3-N, a total of 8 parameters), in accordance with the national standard: Surface Water Environmental Quality Standard GB 3838-2002. Ri Ming also monitors the water quality of the Gujiabang River by themselves quarterly (test parameters include COD, TOC, TDS, pH, UV275, EC). Therefore, it could help to monitor the impact to the local river.</p> <p>2. In 2024, Ri Ming as an organizer, organized two riverbank cleaning activities with stakeholders in Gujiabang River and Jinshui Lake respectively, and provided the activity records for review.</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.	
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	<p><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></p>	 Yes
Comment	<p>1. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010).</p> <p>2. The site conducts WBCSD self-assessment to evaluate the level of onsite WASH and the final result was 93%.</p> <p>3. The site carried out a questionnaire survey on employee satisfaction regarding drinking water, sanitation, and facilities, and according to the survey results, the satisfaction was about 79%, and the site conducted correction according to the survey, such as adding washing liquid in toilets.</p> <p>4. Ri Ming conducts regular testing of drinking water and secondary water supply to ensure safe drinking water.</p> <p>5. Sanitation and hygiene installations were checked and cleaned daily, water purifiers were checked daily and maintained when needed.</p>	
3.6.2	<p><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></p>	 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 the site's employees, local community and local government authorities.	
3.6.3	<p><i>Advanced Indicator</i></p> <p><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></p>	 No

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Comment	The facility does not perform this indicator.	
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 facility 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	Indirect water use targets have been set in the water stewardship plan. 1. Ri Ming conducted a questionnaire survey on its existing top 50 suppliers and analyzed their indirect water use based on the survey questionnaire. Based on the water risk assessment results of the suppliers, one key supplier (1 outside the catchment) was selected to be kept attention. 2. Ri Ming has screened suppliers /service providers' IPE violation records and promoted them to provide feedback to the IPE platform (a well-known environmental information disclosure platform in China), Ri Ming has promoted one supplier to remove the violation records. 3. The site conducts on-site audits of its hazardous waste treatment service providers every year, covering topics related to environmental management. In 2023, the site conducted on-site audit on 7 hazardous waste treatment service providers. For the findings found during the audit, the site will promote the suppliers to follow up and rectify them. All the 7 hazardous waste treatment service providers corrected the findings noted in the audit.	
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	Indirect water use targets have been set in the water stewardship plan. 1. Ri Ming conducted a questionnaire survey on its existing top 50 suppliers and analyzed their indirect water use based on the survey questionnaire. Based on the water risk assessment results of the suppliers, one key supplier (1 outside the catchment) was selected to be kept attention. 2. Ri Ming has screened suppliers /service providers' IPE violation records and promoted them to provide feedback to the IPE platform (a well-known environmental information disclosure platform in China), Ri Ming has promoted one supplier to remove the violation records. 3. The site conducts on-site audits of its hazardous waste treatment service providers every year, covering topics related to environmental management. In 2023, the site conducted on-site audit on 7 hazardous waste treatment service providers. For the findings found during the audit, the site will promote the suppliers to follow up and rectify them. The audit records and correction evidence were provided.	
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	Indirect water use targets have been set in the water stewardship plan. 1. Ri Ming conducted a questionnaire survey on its existing top 50 suppliers and analyzed their indirect water use based on the survey questionnaire. Based on the water risk assessment results of the suppliers, one key supplier (1 outside the catchment) was selected to be kept attention. 2. Ri Ming has screened suppliers /service providers' IPE violation records and promoted them to provide feedback to the IPE platform (a well-known environmental information disclosure platform in China) and remove the violation records. 3. The site conducts on-site audits of its suppliers/service providers every year, covering topics related to environmental management. In 2023, the site conducted on-site audit on 7 hazardous waste treatment service providers. For the findings found during the audit, the site will promote the suppliers to follow up and rectify them.	
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	The site actively cooperates with the government supervision department to conduct supervisory inspections and visits. The site keeps close contact with local water-related infrastructure owners through many ways such as Wechat or phone call.	
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	1. The site has developed its own sustainable water stewardship management manual, LK-RS-002, to standardize its water management activities. 2. Ri Ming has established an Environment and Water Stewardship Committee to coordinate its environmental and water management related affairs. An organization chart of the environment and water stewardship management team established, including the manager representative of the water stewardship and the responsible department. 3. On 20 December 2023, Ri Ming invited a third party to carry out a one-day training onsite on sustainable water stewardship to improve water management system. 4. On 7 September 2023, Ri Ming had participated in a one-day online training onsite on sustainable water stewardship to improve water management system which conducted by a third party. 5. In 2019, Ri Ming was awarded the honor of "2018 (The third batch) Green Factory Demonstration" by Shanghai City Economic and Information Committee and invited a third company to conduct surveillance audit in October 2023. 6. In 2022, Ri Ming was awarded the honor of "2021 Shanghai City Water Conservation Demonstration (Benchmarking) Enterprise" by Shanghai Water Affair Bureau and Shanghai City Economic and Information Committee. 7. Since 2017, Ri Ming has participated in the client's "Clean Water Program" and had completed the program which approved by the client in June 2018.	
3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Yes

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Comment

1. Ri Ming has set an annual target of water usage is less than the government's water abstraction limits of 853,900 tons/year for 2023 in its WSP and tracks the progress of its water usage target on a monthly basis.
2. Ri Ming has set targets for water consumption per 10,000 yuan of value-added by industry is less than 18.48 in its WSP which meet the advance standard of "Machinery industry cleaner production evaluation index System (Trial)". The site tracks its water consumption per unit product on a monthly basis.
3. Ri Ming has set targets for wastewater recycling rate to be 53% in its WSP, the site tracks its water use of each production line monthly.

Ri Ming has developed a proposal for improving water balance in 2023, with a total of 5 improvement measures approved, involving topics such as optimizing production processes to save water consumption and improve wastewater utilization, such as:

1. Install electromagnetic valve in pure water tank in grinding and cleaning machine, changed overflow from manual overflow to electromagnetic valve auto-overflow to reduce the water use.
2. Install recycling equipment and reused the RO concentrated water for washing toilet to reduce the use of fresh water.
3. Add UF equipment in wastewater treatment plant and expanded the wastewater treatment plant, recycling the qualified wastewater treated after biochemical treatment to product pure water to reduce the use of fresh water.

Status of progress towards meeting water balance targets set in the water stewardship plan is also identified by the site. Ri Ming tracks water use, water consumption per unit of output and water consumption per unit of product monthly and tracks wastewater recycling rate semi-annually.

According to the data statistics and analysis records provided by the site, as of 2023, the total water usage was 330,369 tons, the water consumption per 10,000 yuan of value-added by industry is 6.70 tons, wastewater recycling rate was 56%.

3.9.3 *Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.*



Yes

Comment

1. Ri Ming has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are stricter than the discharge permit. The specific details are as follows: Internal control index of discharged wastewater: pH: 6.5-8.5, COD 220 mg/L, TN 35 mg/L; NH3-N 20 mg/L (Permit requirements: DB31/199-2018 Shanghai Sewage Comprehensive Emissions Standard Level 3 standard: pH: 6.0-9.0, Chromaticity: 64, SS: 400 mg/L, BOD5: 300 mg/L, COD: 500 mg/L, TN: 70 mg/L, NH3-N: 45 mg/L, TP: 8mg/L, Petroleum: 15 mg/L; Anionic Surfactant: 20 mg/L)
2. Ri Ming has set an annual target of the total wastewater discharged amount was less than 14.45 ton per 10,000 yuan of value-added by industry and total discharged COD amount was less than 1.77 kg per 10,000 yuan of value-added by industry to address the shared water challenges within the catchment. Ri Ming monitors the total wastewater discharged and total discharged COD quarterly and has developed a series of implementation plans. Including: optimizing the ETP treatment process and add the wastewater reuse rate.
3. Ri Ming has set an annual target of the COD discharge amount and NH3-N discharge amount of per unit product reduce 5% compared 2022 to address the shared water challenges within the catchment. Ri Ming monitors the total wastewater discharged and total discharged COD and NH3-N quarterly and has developed a series of implementation plans. Including: optimizing the ETP treatment process and add the wastewater reuse rate.

The site tracks the progress of its Water Stewardship targets regularly.

3.9.4 *Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.*




Yes

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Comment 1. Ri Ming monitors the water quality of the Gujiabang River next to the facility. The site invites third agencies to test to conduct sampling and testing every year months at downstream and upstream of the site (test parameters include pH, DO, permanganate index, COD, BOD5, TN, TP, and NH3-N, a total of 8 parameters), in accordance with the national standard: Surface Water Environmental Quality Standard GB 3838-2002. Ri Ming also monitors the water quality of the Gujiabang River by themselves quarterly (test parameters include COD, TOC, TDS, pH, UV275, EC).
2. In 2024, Ri Ming as an organizer, organized two 'river patrol' activities with stakeholders in Gujiabang River and Jinshui Lake respectively, and provided the activity records for review.


3.9.5 *Actions towards achieving best practice related to targets in terms of WASH shall be implemented.*  **Yes**

Comment 1. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010).
2. The site conducts WBCSD self-assessment to evaluate the level of onsite WASH and the final result was 93%.
3. The site carried out a questionnaire survey on employee satisfaction regarding drinking water, sanitation, and facilities, and according to the survey results, the satisfaction was about 79%, and the site conducted correction according to the survey, such as adding washing liquid in toilets.
4. Ri Ming conducts regular testing of drinking water and secondary water supply to ensure safe drinking water.
5. Sanitation and hygiene installations were checked and cleaned daily, water purifiers were checked daily and maintained when needed.

3.9.6 *Advanced Indicator Achievement of identified best practice related to targets in terms of good water governance shall be quantified.*  **Yes**

Comment The site has quantified the performance of the targets set in the Water stewardship plan which includes Best Practice such as
1. Ri Ming has developed its own sustainable water stewardship management manual, LK-RS-002, to standardize its water management activities and has established an Environment and Water Stewardship Committee to coordinate its environmental and water management related affairs. An organization chart of the environment and water stewardship management team established, including the manager representative of the water stewardship and the responsible department.
2. In 2019, Ri Ming was awarded the honor of "2018 (The third batch) Green Factory Demonstration" by Shanghai City Economic and Information Committee and invited a third company to conduct surveillance audit in October 2023.
3. In 2022, Ri Ming was awarded the honor of "2021 Shanghai City Water Conservation Demonstration (Benchmarking) Enterprise" by Shanghai Water Affair Bureau and Shanghai City Economic and Information Committee.
4. Since 2017, Ri Ming has participated in the client's "Clean Water Program" and had completed the program which approved by the client in June 2018.



Score 8

3.9.7 *Advanced Indicator Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.*  **Yes**

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Comment	<p>The site has quantified the performance of the targets set in the Water stewardship plan which includes Best Practice such as</p> <ol style="list-style-type: none"> 1. Ri Ming has set an annual target of water usage is less than the government's water abstraction limits of 853,900 tons/year for 2023 in its WSP and tracks the progress of its water usage target on a monthly basis. 2. Ri Ming has set targets for water consumption per 10,000 yuan of value-added by industry is less than 18.48 in its WSP which meet the advance standard of "Machinery industry cleaner production evaluation index System (Trial)". The site tracks its water consumption per unit product on a monthly basis. 3. Ri Ming has set targets for wastewater recycling rate to be 53% in its WSP, the site tracks its water use of each production line monthly. <p>Ri Ming has developed a proposal for improving water balance in 2023 and identified status of progress towards meeting water balance targets set in the water stewardship plan. According to the data statistics and analysis records provided by the site, as of 2023, the total water usage was 330,369 tons, the water consumption per 10,000 yuan of value-added by industry is 6.70 tons, wastewater recycling rate was 56%.</p>	
Score	8	
3.9.8	<p><i>Advanced Indicator</i></p> <p><i>Achievement of identified best practices related to targets in terms of water quality shall be quantified</i></p>	 Yes
Comment	<p>The site has quantified the performance of the targets set in the Water stewardship plan which includes Best Practice such as</p> <ol style="list-style-type: none"> 1. Ri Ming has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are stricter than the discharge permit. The specific details are as follows: Internal control index of discharged wastewater: pH: 6.5-8.5, COD 220 mg/L, TN 35 mg/L; NH3-N 20 mg/L (Permit requirements: DB31/199-2018 Shanghai Sewage Comprehensive Emissions Standard Level 3 standard: pH: 6.0-9.0, Chromaticity: 64, SS: 400 mg/L, BOD5: 300 mg/L, COD: 500 mg/L, TN: 70 mg/L, NH3-N: 45 mg/L, TP: 8mg/L, Petroleum: 15 mg/L; Anionic Surfactant: 20 mg/L) 2. Ri Ming has set an annual target of the total wastewater discharged amount was less than 14.45 ton per 10,000 yuan of value-added by industry and total discharged COD amount was less than 1.77 kg per 10,000 yuan of value-added by industry to address the shared water challenges within the catchment. Ri Ming monitors the total wastewater discharged and total discharged COD quarterly and has developed a series of implementation plans. Including: optimizing the ETP treatment process and add the wastewater reuse rate. 3. Ri Ming has set an annual target of the COD discharge amount and NH3-N discharge amount of per unit product reduce 5% compared 2022 to address the shared water challenges within the catchment. Ri Ming monitors the total wastewater discharged and total discharged COD and NH3-N quarterly and has developed a series of implementation plans. Including: optimizing the ETP treatment process and add the wastewater reuse rate. The site tracks the progress of its Water Stewardship targets regularly and achieved the targets of Best Practice: <ol style="list-style-type: none"> 1) Ri Ming achieved 100% of the internal control targets by 2023 and 2024. 2) The total wastewater discharged amount was 0.76 ton per 10,000 yuan of value-added by industry and total discharged COD amount was 0.01 kg per 10,000 yuan of value-added by industry by 2023 which meet the advance standard of "Machinery industry cleaner production evaluation index System (Trial)". 3) COD discharge amount was 0.22 ton per 10,000 unit products and NH3-N discharge amount was 0.015 ton per 10,000 unit products in 2023 and COD discharge amount was 2.66 ton per 10,000 unit products and NH3-N discharge amount was 0.057 ton per 10,000 unit products. 	
Score	8	
3.9.9	<p><i>Advanced Indicator</i></p> <p><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></p>	 No
Comment	The site does not perform this indicator.	

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3.9.10	Advanced Indicator <i>Achievement of identified best practice related to targets in terms of WASH shall be quantified.</i>	 Yes
Comment	<p>According to the water quality monitoring plan, the site entrusts a third-party laboratory to test its various water quality. According to the test report and analysis record provided by the site, the water quality is 100% in line with its internal control standard.</p> <p>1. The site conducts WBCSD self-assessment to evaluate the level of onsite WASH and the final result was 93%.</p> <p>3. The site carried out a questionnaire survey on employee satisfaction regarding drinking water, sanitation, and facilities, and according to the survey results, the satisfaction was about 79%, and the site conducted correction according to the survey, such as adding washing liquid in toilets.</p> <p>In addition, Ri Ming has also set up a variety of channels to collect employees' opinions and suggestions on their WASH and follow up these feedback in a timely manner, such as:</p> <ul style="list-style-type: none"> • The site conducts an employee satisfaction survey through questionnaires every year, summarizes and analyzes the survey results, and develops an action plan based on employee feedback. • The site conducts satisfaction survey for the employee restaurant regularly, and the employees can feedback their opinions on the restaurant hygiene, food safety and other aspects at any time. 	
Score	4	
3.9.11	Advanced Indicator <i>A list of efforts to spread best practices shall be identified.</i>	 Yes
Comment	Ri Ming actively attends the water saving training organized by local government and shared their water saving experience in Jinshan District Large waste use companies waster saving training in 2024.	
Score	3	
3.9.12	Advanced Indicator <i>A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be identified.</i>	 Yes
Comment	<p>In March 2024, Ri Ming as an organizer, organized a 'River patrol' in Gujiabang River with one neighbor company and one service provider, totally 11 persons had participated in. They cleaned 510 m river and 5 kg garbage.</p> <p>In August 2024, Ri Ming as an organizer, organized a 'River patrol' in Jinshui Lake with one waste treatment company and one service provider, totally 10 persons had participated in. They cleaned 2.17 km river and 11 kg garbage.</p>	
Score	8	
3.9.13	Advanced Indicator <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>	 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	A management review was conducted on September 2, 2024 to summarize the overall environmental performance in 2023, and the environmental performance in 2023 was summarized, which included water stewardship. review water stewardship plan and check each performance of targets in the plan.
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i> ✓ Yes
Comment	The site analyzed its value creation resulting from the implementation of water stewardship plan, especially the implementation of water-saving projects. For example, Ri Ming implemented a total of 5 water-saving projects in 2023, including increasing the proportion of recycled water and adding UF equipment in wastewater treatment plant. As of 2023, Ri Ming has reduced water consumption by 305,600 tons and reduced water costs by 1,690,000 yuan RMB.
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i> ✓ Yes
Comment	The site analyzed its value creation resulting from the implementation of water stewardship plan, especially the implementation of water-saving projects. For example, Ri Ming implemented a total of 5 water-saving projects in 2023, including increasing the proportion of recycled water and adding UF equipment in wastewater treatment plant. As of 2023, Ri Ming has reduced water consumption by 305,600 tons and reduced water costs by 1,690,000 yuan RMB.
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	Mr. Zhang Shimin, the Vice General Manager of Ri Ming attended the management review of 2023 environmental performance in April 2024, participated in the discussion of the review meeting, and was responsible for signing off the results of the review.
Score	3
4.2	<i>Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.</i>
4.2.1	<i>A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.</i> ✓ Yes
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.

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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 The site communicated with the local environmental protection bureau and wastewater treatment infrastructure regarding its water stewardship performance for 2023, but did not involve other stakeholders such as communities, surrounding enterprises, water supply infrastructure, suppliers, employees, etc.

Finding No: TNR-013451

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 Ri Ming communicates its sustainable water management performance with local environmental protection bureau and wastewater treatment infrastructure. For example, Ri Ming communicates its sustainable water management performance with Jinshan Ecological and Environmental Bureau, and the responsible person of Jinshan Ecological and Environmental Bureau stated that they would support the sustainable water management of Ri Ming and provided the opinions to Ri Ming.

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 Ri Ming has developed a 'AWS Management Manual', which specifies that its water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations annual. Plan for 2023 was developed at the January 2023 and the 2024 plan was developed in January 2024. The site modified the plan when any relevant information and lessons learned from the evaluations annual.

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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 disclosed the site's internal governance in relation to water, communication on sustainable water management issues on its official WeChat account. https://mp.weixin.qq.com/s/g3fnXFKoVp2CUyw6HiJxcg
5.2	Communicate the water stewardship plan with relevant stakeholders.
5.2.1	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders. ✘ No
Comment	The site communicated with the local environmental protection bureau, water supply infrastructure and wastewater treatment infrastructure regarding its water stewardship plan for 2024, but did not involve other stakeholders such as communities, surrounding enterprises, suppliers, employees, etc. to obtain broader feedback. Finding No: TNR-012390
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	The site disclosed the water stewardship performance of 2023, including quantified performance against targets on its official WeChat account.
5.3.2	Advanced Indicator The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report. ✘ No
Comment	The facility does not perform this indicator.
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. ✘ No
Comment	The facility does not perform this indicator.
5.4	Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.
5.4.1	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed. ✔ Yes
Comment	The site disclosed the shared water-related challenges and the effort to address shared water challenges on its official WeChat account. https://mp.weixin.qq.com/s/g3fnXFKoVp2CUyw6HiJxcg

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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	The site disclosed the effort to address shared water challenges, internal governance in relation to water, communication on sustainable water management issues on its official WeChat account. They also shared the related information during visiting of the stakeholder like wastewater treatment and water supply infrastructure and government agencies.	
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	A procedure to manage non-conformance and related corrective action is developed, there is no water-related compliance violation identified in past few years.	
5.5.2	<i>Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.</i>	 Yes
Comment	A procedure to manage non-conformance and related corrective action is developed, there is no water-related compliance violation identified in past few years.	
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	A procedure to manage non-conformance and related corrective action is developed, there is no water-related compliance violation identified in past few years.	

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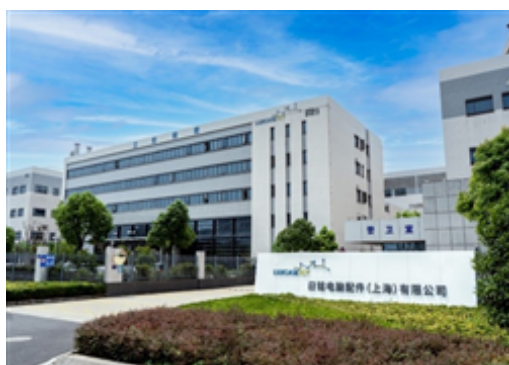
Photographic Evidence from Audit



Procedures for wastewater treatment stations.JPG



wastewater outlet.JPG



site entrance.jpg

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Hazardous waste storage area.JPG



Convenient toilet for visitors.JPG



staff canteen.JPG



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chemical warehouse.JPG



Sludge storage area.JPG


Yes

Upgrade or Downgrade of Certification

Justification for Upgrade or Downgrade

Summary of Evidence which led to change

Previous Findings

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


N/A